

CATALOG 1989 - 1990

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Florida International University

Miami, Florida Member of the State University System

1989 - 1990 Catalog

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Florida International University believes in equal opportunity practices which conform to all laws against discrimination and is committed to nondiscrimination with respect to race, color, creed, age, handicap, sex, marital status, or national origin. Additionally, the University is committed to the principle of taking the positive steps necessary, to achieve the equalization of educational and employment opportunities.

Note: The programs, policies, requirements, and regulations published in this catalog are continually subject to review in order to serve the needs of the University's various publics and to respond to the mandates of the Florida Board of Rogents and the Florida Legislature. Changes in programs, policies, requirements, and regulations may be made without advance notice.

The ultimate responsibility for knowing degree requirements and the requirements imposed upon students by State law rests with the students.

Fees given in this catalog are tentative pending legislative action

ACADEMIC CALENDAR 1989-1990*

FLORIDA INTERNATIONAL UNIVERSITY

FALL SEMESTER 1989

July 24 - 28

Last day for international students to submit applications for Fall Term admission. April 3

Last day for international students to submit all required supporting documents for Fall Term admission. July 3

July 17 Control Cards available for student pick-up

•Short Term Tuition Loan and Tuition Waiver Applications available to students planning to register.

Transfer Students Orientation Sessions. July 17 - 19

Freshmen Orientation Sessions. July 20 - 27

Official Registration Week (Degree-Seeking Students only) by appointment time and day.

July 31 - August 4 Open Registration.

Last day to apply for Short Term Tuition Loans for students already registered. August 7

·Last day to apply for Tuition Waivers for students already registered. Last day to pay tuition and fees to retain registered courses by 6:30 p.m. August 8

·Last day for Financial Aid recipients to validate class schedules to retain registered courses.

Last day to sign Short Term Tuition Loan promissory notes and validate class schedules for students already

registered.

Last day for Tuition Waiver applicants to validate class schedules and pay in-state portion of tuition and all required

fees to retain registered courses. Housing Check-in 9 a.m. to 8 p.m.

August 20 Short Term Tuition Loan and Tuition Waiver Applications available to students planning to register on Registration Day.

Freshmen and Transfer Students Orientation Sessions. August 21 - 22

Registration Day (10 a.m. to 7:30 p.m.). August 23

Classes Begin. August 25

·Last day to apply for Short Term Tuition Loans for students who registered on or after Registration Day.

·Last day to apply for Tuition Waivers for students who registered on or after Registration Dav.

Registration for State Employees using fee waivers.

Last day to complete Late Registration by 3 p.m. September 1

Drop/Add Period ends at 3 p.m.

·Last day to drop courses or withdraw from the University without incurring a financial liability by 3 p.m.

Labor Day Holiday (University closed). September 4

Last day to pay tuition and fees to avoid cancellation of enrollment by 6:30 p.m. September 5

·Last day for Financial Aid recipients applicants to validate class schedules to retain registered courses on

·Last day to sign Short Term Tuition Loan promissory notes for students who registered on Registration day.

·Last day for Tuition Waiver applicants to validate class schedules and pay in-state portion of tuition and all required

fees to retain registered courses on Registration Day.

September 6-8 Students must sign approved Tuition Waivers.

September 22 Last day to apply for graduation by 3 p.m.

·Last day to withdraw from the University with a 25% refund of tuition less bonding fees by 3 p.m. October 2

Last day for international students to submit applications for admission for Spring Term.

CLAST Test. October 7 October 9 Yom Kippur

November 1

October 20 Faculty Convocation

·Last day to drop a course with a DR grade by 3 p.m.

·Last day to withdraw from the University with a WI grade by 3 p.m.

Last day for international students to submit all required supporting documents for admission for Spring Term.

Veterans' Day Holiday (University closed). November 10

November 13 Spring Term Control Cards available for pick-up.

Short Term Tuition Loan and Tuition Waiver Applications available to students registering for Spring Term.

Thanksgiving Holiday (University closed) November 23-24

Spring Term Official Registration Week (Degree-Seeking Students only) by appointment time and day. Nov 27-Dec 1

Spring Term Open Registration. December 4-8

Classes End. December 8

December 11-15 Official Examination Period

Last day to pay Spring Term tuition and fees to retain registered courses by 6:30 p.m. December 12

·Last day for Financial Aid recipients to validate Spring Term class schedules to retain registered courses.

December 19 Grades due.

Grades Mailed to Students. December 21

SPRING SEMESTER 1990

Last day for international students to submit applications for Spring Term admission. October 2

Last day for admission for international students to submit all required supporting documents for Spring Term admission. November 1

November 13 Control Cards available for pick-up.

-Short Term Tuition Loan and Tuition Waiver Applications available to students planning to register for Spring Term.

Official Registration Week (Degree-Seeking Students only) by appointment time and day. Nov 27 - Dec 1

December 4 - 8 Open Registration. December 12 Last day to pay tuition and fees to retain registered courses by 6:30 p.m.

· Last day for Financial Aid recipients to validate class schedules to retain registered courses.

· Last day to sign Short Term Tuition Loan premissory notes and validate class schedules for students already

registered.

·Last day for Tuition Waiver applicants to validate class schedules and pay in-state portion of tuition and all required

fees to retain registered courses.

Last day to apply for Short Term Tuition Loans for students already registered. December 21

·Last day to apply for Tuition Waivers for students already registered.

Short Term Tuition Loan and Tuition Waiver Applications available to students registering on Registration Day. January 2

Housing check-in 9 a.m. - 8 p.m. January 3

Registration Day (10 a.m. to 7:30 p.m.). January 4

·Financial Aid Applications available for 1990-1991.

Classes Begin. January 8

·Registration for State Employees using fee waivers.

Last day to apply for Short Term Tuition Loans for students who registered on or after Registration Day. January 10

Last day to apply for Tuition Waivers for students who registered on or after Registration Day.

January 12 Last day to complete Late Registration by 3 p.m.

Drop/Add Period ends at 3 p.m.

·Last day to drop courses or withdraw from the University without incurring a financial liability by 3 p.m.

Martin Luther King Holiday (University Closed). January 15

Last day to pay tuition and fees to avoid cancellation of enrollment by 6:30 p.m. January 16

·Last day for Financial Aid recipients applicants to validate class schedules to retain registered courses on

·Registration Day.

·Last day to sign Short Term Tuition Loan promissory notes and validate class schedules for students who registered

on Registration day.

Last day for Tuition Waiver applicants to validate class schedules and pay in-state portion of tuition and all required

·fees to retain registered courses on Registration Day.

Financial Aid students must sign approved Tuition Waivers. January 22 - 26

Last day for international students to submit applications for admission for Summer Term 1990. February 1

February 2 Last day to apply for graduation by 3 p.m.

Last day to withdraw from the University with a 25% refund of tuition less bonding fees by 3 p.m.

March 1 Last day for admission for international students to submit all required supporting documents for Summer Term.

March 2 Last day to drop a course with a DR grade by 3 p.m.

·Last day to withdraw from the University with a WI grade.

March 5 - 10 Spring Break.

CLAST Test. March 10

March 26 Summer Term Control Cards available for pick-up.

Deadline for 1990-1991 Financial Aid Applications for priority consideration. March 30

Summer Terms Official Registration Week (Degree-Seeking Students only) by appointment time and day. April 2 - 6

April 9 - 13 Summer Terms Open Registration for the Summer Terms

April 13 Good Friday (No examinations or major quizzes may be given during the designated hours. Good Friday begins at Noon and ends at 3:30 p.m. the day of the holiday.)

Passover (No examinations or major quizzes may be given during the designated hours. Jewish holidays begin 4

April 16 - 17 p.m. the day before the holiday and end at 7 p.m. the day after the holiday.)

Last day to pay Summer Terms tuition and fees to retain registered courses by 6:30 p.m.

Last Day for Financial Aid recipients to validate Summer Terms class schedules to retain registered courses.

Deadline date for 1990-1991 Financial Aid Application for priority consideration.

April 20 Classes End

April 17

April 30

April 23 - 27 Official Examination Period.

Commencement Exercises

Grades due.

Grades Mailed to Students. May 2

COMPLETE SUMMER SEMESTER 1990

February 1 Last day for international students to submit applications for Summer Term admission.

March 1 Last day for admission for international students to submit all required supporting documents for Summer Term

April 3 Short Term Tuition Loan and Tuition Waiver Applications available to students registering for the Summer Terms

March 26 Control Cards available for pick-up

April 2 - 6 Official Registration Week (Degree-Seeking Students only) by appointment time and day

April 9 - 13 Open Registration.

April 11 Last day to apply for Short Term Tuition Loans for students already registered. ·Last day to apply for Tuition Waivers for students already registered.

Last day to pay tuition and fees to retain registered courses by 6:30 p.m. April 17

Last Day for Financial Aid recipients to validate class schedules to retain registered courses

Deadline date for 1990 1991 Financial Aid Application for priority consideration

·Last day for Financial Aid recipients to validate class schedules to retain registered courses

·Last day for Tuition Waiver applicants to validate class schedules and pay in-state portion of tuition and all required

fees to retain registered courses

Short Term Tuition Lean and Tuition Waiver Applications available to students who plan to register on Registration Day May 3

·Housing Check-in 9 a m. to 8 p.m.

Registration Day (10 a.m. to 7:30 p.m.). May 4

Classes Begin. May 8

•Registration for State Employees using fee waivers.

Last day to apply for Short Term Tuition Loans for students who registered on or after Registration Day.

·Last day to apply for Tuition Waivers for students who registered on or after Registration Day.

Last day to complete Late Registration by 3 p.m. May 15

Drop/Add Period ends at 3 p.m.

Last day to drop courses or withdraw from the University without incurring a financial liability by 3 p.m.

May 18 Last day to pay tuition and fees to avoid cancellation of enrollment by 6:30 p.m.

·Last day for Financial Aid recipients to validate class schedules to retain registered courses on Registration Day. Last day to sign Short Term Tuition Loan promissory notes and validate class schedules for students who registered

on Registration day.

Last day for Tuition Waiver applicants to validate class schedules and pay in state portion of tuition and all required

fees to retain registered courses on Registration Day.

Students must sign approved Tuition Waivers for Summer Terms. May 21 - 25

May 28 Memorial Day Holiday (University closed).

June 2 CLAST Test

Last day to apply for Graduation by 3 p.m. June 1

Last day to withdraw from the University with a 25% refund of tuition less bonding fees by 3 p.m.

Last day to drop a course with a DR grade by 3 p.m. July 6

Last day to withdraw from the University with a WI grade by 3 p.m.

Independence Day Holiday (University closed). July 4 Fall Term Control Cards available for pick-up.

July 23 Fall Term Official Registration Week (Degree-Seeking Students only) by appointment time and day. July 30 - August 3

Fall Term Open Registration. August 6 - 10

August 14 Last day to pay tuition and fees to avoid cancellation of enrollment by 6:30 p.m.

Last day for Financial Aid recipients to validate class schedules to retain registered courses

Classes End. August 10

Examination Period. August 13 - 14

August 15 Grades due.

Grades Mailed to Students. August 17

SUMMER TERM A

May 18

July 20

May 4 Registration Day.

May 8 Classes Begin.

May 15 Last day to complete Late Registration by 3 p.m.

Drop/Add Period ends at 3 p.m.

Last day to drop courses or withdraw from the University without incurring a financial liability by 3 p.m.

Last day to pay tuition and fees to avoid cancellation of enrollment by 6:30 p.m.

Last Day for Financial Aid recipients to validate class schedules to retain registered courses.

May 23 Memorial Day Holiday (University closed). June 1 Last day to apply for graduation by 3 p.m.

Last day to drop a course with a DR grade by 3 p.m.

·Last day to withdraw from the University with a WI grade by 3 p.m.

Last day to withdraw from the University with a 25% refund of tuition less bonding fees by 3 p.m.

Classes End.** June 20

Examination Period June 21 - 22

Grades Mailed to Students. August 17

SUMMER TERM B

June 1 Last day to apply for graduation by 3 p.m.

June 25 Registration Day.

June 26 Classes Begin.

Registration for State Employees using fee waivers.

Independence Day Holiday (University closed). July 4

July 3 Last day to complete Late Registration by 3 p.m.

Drop/Add Period ends at 3 p.m.

Last day to drop courses or withdraw from the University without incurring a financial liability by 3 p.m.

Last day to pay tuition and fees to avoid cancellation of enrollment by 6:30 p.m.

July 5 ·Last Day for Financial Aid recipients to validate class schedules to retain registered courses.

Last day to drop a course with a DR grade by 3 p.m.

·Last day to withdraw from the University with a WI grade by 3 p.m.

·Last day to withdraw from the University with a 25% refund of tuition less bonding fees by 3 p.m.

August 10 Classes End.

Examination Period August 13 - 14

August 15 Grades Due. August 17 Grades Mailed to Students.

*Calendar dates are subject to change. Please contact appropriate offices for verification and updates.

"Grades will not be posted on transcripts, and graduation will not be processed until the end of the Complete Summer Term, August 17.

State Board of Education

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Florida Board of Regents

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University Officials

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History

Florida International University, a member institution of the State University System of Florida, was established by the State Legislature on June 22, 1955. Classes began at University Park on September 19, 1972, with 6,000 students enrolled in upper-division undergraduate and graduate programs. In 1981 the University added lower-division classes for freshmen and sophomores, expanding its enrollment capacity. In 1984, the University received authority to begin offering degree programs at the doctoral

level; these programs received Level IV accreditation from the Southern Association of Colleges and Schools (SACS) in 1986.

The Florida Board of Regents appointed Charles E. Perry as the first president of FIU in July of 1969. He was succeeded in June, 1976 by President Harold Brian Crosby. Gregory Baker Wolle was named the third president in February, 1979. Modesto A. (Mitch) Maidique was named the fourth President of Florida International University on August 27, 1986. Maidique received his Ph.D. in Electrical Engineering from the Massachusetts Institute of Technology and was associated with MIT, Harvard, and Stanford for 20 years.

Goals

Florida International University (FIU), a comprehensive, multi-campus urban research institution, is committed to providing both excellence and access to all qualified students desiring to pursue higher education. FIU offers a comprehensive undergraduate liberal arts education structured around a rigorous core curriculum. The University also offers a number of highly-regarded master's and doctoral programs in six of its colleges and schools.

The University's academic programs are designed to achieve four major goals:

1. To provide an excellent university education for all qualified students, challenging and stimulating them at the lower-division level and preparing them to choose a major field in the upper division, leading to selection of a profession or occupation or further study at the graduate level. FIU encourages its graduates, as educated citizens, to pursue liletime opportunities to contribute to the development of their community's cultural, aesthetic, and economic environments through participation.

2. To generate new knowledge through a vigorous and ambitious commitment to research in all academic disciplines and to encourage creativity by fostering an atmosphere conducive to the expression of ideas, artistic development, and communication with the external community.

3. To serve the university's external community, with special attention to Dade, Broward, and Monroe counties, enhancing South Florida's capacity to meet its cultural, economic, social and urban challenges as we move into the 21st century.

4. To foster greater global understanding as a major center of international education for the people of the Americas and the international community.

Campuses

The University operates two campuses in Dade County and two educational centers in Ft. Lauderdale. The main campus is located at University Park in west Dade County, approximately 10 miles west of downtown Miami. The North Miami Campus is adjacent to Biscayne Bay, at Northwest Biscayne Boulevard and 151st Street. Broward County area is served cooperatively by the FAU/FIU Center, located on the campus of Broward Community College in Davie and at University Tower in Fort Lauderdale.

University Park Campus

University Park occupies 344 acres in the western suburbs of Dade County, not far from Miami International Airport. The campus has eight major buildings, a residential apartment complex for 800 students, and a new athletic arena. The campus development plan envisions additional facilities to accommodate anticipated growth, including construction of an \$10 million engineering building in 1988-89 and an \$11 million physical science building shortly thereafter.

North Miami Campus

The North Miami Campus encompasses 200 acres on Biscayne Bay, including a large natural cypress preserve. Campus facilities include six campus buildings, an Olympic-type aquatic center, apartment-style housing for 552 students, and a new library, with seating for 500 and a capacity of 232,000 volumes. This facility, which was opened in January 1988, also contains classrooms, a modern foreign language laboratory and instructional media laboratory.

FIU Broward

In collaboration with Florida Atlantic University and Broward Community College, FIU faculty and administrators are working to provide a comprehensive urban university presence in Broward County. Both FIU Broward facilities are staffed to provide full student services including admissions, registration, financial aid, academic advising, student activities, and career counseling.

The University offers full degree programs and a variety of supplementary courses at two major academic centers in Broward County.

The FIU Broward Center, located in western Fort Lauderdale emphasizes undergraduate programs in cooperation with Broward Community College. Under the 2+2 program, students enroll in BCC for the first two years of university study and FIU provides the linal two years and

awards the bachelor's degree to graduates. The University Tower, in downtown Fort Lauderdale, serves as the administrative headquarters for the FIU Broward programs and as a major instructional facility. The University Tower is primarily utilized to provide graduate programs, research and services to residents and businesses and service industries in the area.

General Academic Information

Florida International University offers a variety of academic programs and courses at the bachelor's, master's, and doctorate degree levels which are designed to respond to the changing needs of the growing metropolitan areas of South Florida. Degree programs are offered in the College of Arts and Sciences, College of Business Administration, College of Education, College of Engineering and Design. College of Health, School of Hospitality Management, School of Nursing, and School of Public Affairs and Services. Graduate study at the doctoral level is available in Computer Science. Education, Psychology, and Public Administration.

Accreditation and Memberships

All academic programs of the University are approved by the State Board of Education and the Florida Board of Regents. The University is an accredited member of the Southern Association of Colleges and Schools. The professional programs of the respective schools of the University are accredited or approved by the appropriate professional associations, or are pursuing full professional accreditation or approval.

The University is also an affiliate member of the Association of Upper Level Colleges and Universities, the American Association of State Colleges and Universities, the Florida Association of Colleges and Universities, the American Association of Community and Junior Colleges, a Charter Member of the Southeast Florida Educational Consortium, and numerous other educational and professional associations.

The following agencies have accredited professional programs at the University:

Accreditation Board for Engineering and Technology American Assembly of Collegiate

Schools of Business American American Chemical Society American Council of Construction Education
Council of Graduate Schools in the
United States

Florida Consortium on Multilingual and Multicultural Education

National Accreditation Agency for Clinical Lab Sciences National Association of Colleges of

Nursing National Association of Schools of

Public Affairs National League of Nursing

The Accreditation Board of Engineering and Technology

The American Dietetics Association The American Medical Association

The American Medical Records
Association

The American Occupational Therapy Association

The American Physical Therapy
Association
The American Society of Clinical

The American Society of Clinical Pathologists

The Council on Social Work Education

Southeast Florida Educational Consortium

Florida International University, Broward Community College, and Miami-Dade Community College are charter members of the Southeast Florida Educational Consortium, which was established in 1977. This organization links the member institutions in planning, maintaining, and evaluating cooperative efforts in academic programs, student services, and administrative support services.

The overall objectives of the Consortium are to:

- Increase and improve educational opportunities.
- Ensure smooth transition from the community college to the university.
- Provide easy access to institutional services for students and faculty.
- Effectively utilize human and fiscal resources.

Descriptions of specific cooperative arrangements between the Consortium member campuses and student and faculty procedures are given in the appropriate sections of this Catalog.

Academic Programs College of Arts and Sciences Bachelor of Arts In

Chemistry
Economics
English
Environmental Studies
French
Geology
German

History
Humanities
International Relations
Italian
Liberal Studies
Philosophy
Political Science
Portuguese
Psychology
Religious Studies
Sociology/Anthropology
Spanish

Bachelor of Science in

Biological Science Chemistry Communication Computer Science Environmental Studies Geology Mathematical Sciences Mathematics Physics Statistics

Bachelor of Music

Bachelor of Fine Arts in

Art Theatre

Master of Arts in

Economics Hispanic Studies History International Studies Linguistics

Master of Science In

Biology Chemistry Computer Science Environmental and Urban Systems (jointly with the College of Engineering and Design)

Geology
Mass Communication
Mathematical Sciences
Psychology
Physics

Doctor of Philosophy in

Computer Science Economics Psychology

Finance

College of Business Administration

Bachelor of Accounting

Bachelor of Business Administration with majors in

International Business
Management
Management Information Systems

Marketing Personnel Management

Master of Accounting

Master of Business Administration

Master of international Business

Master of Science in Finance

Master of Science in Management

Master of Science in Taxation

Doctor of Philosophy in Business Administration

College of Education

Bachelor of Science in

Art Education Biology Education

Business Education Chemistry Education Elementary Education English Education History Education Health Occupations Education Home Economics Education Industrial Arts Education Mathematics Education Modern Language Education (majors in French, German, and Spanish) Music Education Parks and Recreation Management Physical Education Social Studies Education Special Education (majors in Emotional Disturbance, Mental Retardation, and Specific Learning Disabilities) Vocational Education (majors in

Master of Science In

Art Education
Business Education
Counselor Education (School and
Community)
Diagnostic Teaching (majors in

Technical Education and

Vocational Industrial Education)

Diagnostic Teaching (majors in Emotional Disturbance, Mental Retardation, and Specific Learning Disabilities)

Early Childhood Education
Educational Leadership
Elementary Education
English Education
Health Occupations Education
Home Economics Education
Industrial Arts Education
International Development Education
Mathenatucs Education
Modern Language Education (majors in
Spanish and French)

Spanish and French)
Music Education
Parks and Recreation Administration
Physical Education
Reading
School Psychology

Science Education
Social Studies Education
Teaching English to Speakers of Other
Languages (TESOL)
Urban Education

Urban Education
Vocational Education (majors in
Administration, Supervision, and
Technical and Vocational
Education)

Education Specialist (Ed.S.)
Curriculum and Instruction

Doctoral Programs (Ed.D.)

Educational Leadership

Adult Education and Human Resource
Development
Community College Teaching
Curriculum and Instruction
Educational Leadership
Exceptional Student Education

College of Engineering and Design

Bachelor of Science in

Apparel Management Architectural Technology Civil Engineering Construction Management Electrical Engineering Environmental Technology and Urban Systems Industrial Engineering Interior Design Mechanical Engineering

Master of Science in

Civil Engineering
Con struction Management
Electrical Engineering
Environmental Engineering
Environmental and Urban Systems
Mechanical Engineering
Master of Landscape Architecture

College of Health

Bachelor of Science in

Dietetics and Nutrition Medical Records Administration Medical Technology Physical Therapy Occupational Therapy Prosthetics and Orthotics

Master of Science in

Dietetics and Nutrition Medical Laboratory Sciences Occupational Therapy Public Health

School of Hospitality Management

Bachelor of Science with a major in

General Hospitality Management

Mester of Science in Hotel and Food Service Management

School of Nursing

Bachelor of Science in Nursing

School of Public Affairs and Services

Bachelor of Science In Criminal Justice Social Work

Bachelor of Health Services Administration

Bachelor of Public Administration

Master of Science in Criminal Justice

Master of Health Services
Administration

Master of Public Administration
Master of Social Work

Doctor of Philosophy In

Public Administration (jointly with FAU)

North Miami Campus Programs

College of Arts and Sciences

Communication English Humanities International Relations Political Science Psychology Sociology/Anthropology

College of Business Administration

Undergraduate

Management Marketing

Graduate

Master of Business Administration

College of Education

Undergraduate

Elementary Education Early Childhood Education

Graduate

Adult Education (Ed.D.)
Community College Teaching (Ed.D.)
Curriculum and Instruction (Ed.D.)
Early Childhood Education
Elementary Education
Reading

College of Health

Undergraduate
Medical Record Administration

Master of Public Health

School of Hospitality Management

Bachelor of Science with a major in General Hospitality Management

Master of Science in Hotel and Food Service Management

School of Nursing

Nursing

School of Public Affairs and Services

Undergraduate
Criminal Justice
Health Services Administration
Public Administration

Social Work Graduate Level

Criminal Justice Health Services Administration Public Administration (M.P.A., Ph.D.) Social Work

¹The complete program of studies is not available on the North Miami Campus. The student is expected to complete course work at University Park.

Broward County Programs

College of Arts and Sciences

Liberal Studies - Bachelor's (BC)

College of Business Administration

Accounting - Bachelor's and Master's (BC/UT)

Business Administration - Master's (BC)
- Doctoral (UT)

Finance - Bachelor's and Master's (BC/UT)

Taxation - Master's (UT)

College of Education

Adult Education and Human Resource Development - Master's and Doctoral (Ed.D.) (BC) Community College Teaching - Doctoral (Ed.D.) (BC) Educational Leadership - Master's (BC) -Doctoral (Ed.D.) (BC) Education Specialist (BC)

Elementary Education - Bachelor's and Master's (BC)

Health Occupations Education -Bachelor's and Master's (BC)

College of Engineering and Design

Construction Management - Bachelor's and Master's (BC)
Junior-level course offerings for:

Civil Engineering
Electrical Engineering
Industrial Engineering
Mechanical Engineering

Full graduate offerings via Florida Engineering Education Delivery System (FEEDS) are available in all engineering disciplines.

School of Hospitality Management

Hospitality Management - Bachelor's (BC)

School of Nursing

Nursing - Nursing (BC)

School of Public Affairs and Services

Undergraduate Level

Health Services Administration -Bachelor's and Master's (BC/UT) Public Administration - Master's (UT) Social Work - Master's (UT)

Primary Location: BC = Broward Center UT = University Tower

Other degree programs are under consideration for possible implementation during the 1989-1990 academic year. In addition to the degree programs, a variety of courses are offered from the College of Arts and Sciences, the College of Engineering and Design and the College of Health Sciences.

Minors

A minor program is an arrangement of courses enabling a student to develop a degree of expertise and knowledge in an area of study in addition to his or her major academic program of study

also complete the requirements for a baccalaureate degree from the University. A minor is not interdisciplinary.

College of Arts and Sciences

Advertising

Art History Biology Chemistry Computer Science Economics English Environmental Studies French Language and Culture General Translation Studies Geology Geography History Human Biology **Humanities** Journalism Mass Communication Mathematics Philosophy Physics

Political Science
Portuguese
Psychology
Public Relations
Religious Studies
Sociology/Anthropology
Statistics
Telecommunications
Theatre

Theatre Visual Arts

College of Engineering and Design

Apparel Manufacturing
Apparel Merchandising Management

College of Health

Medical Laboratory Sciences Nutrition

School of Public Affairs and Services

Criminal Justice Public Administration Social Welfare

Certificates

Certificate Programs are structured combinations of courses with a common base of interest from one or more disciplines into an area of concentration.

Successful completion of a Certificate Program is entered on the student's transcript and records. Two types of certificates are awarded.

Academic Certificate Awarded by an academic unit to a student at thn time of awarding a bachelor's degree, or upon completion of the appropriate coursework to a student who already has a bachelor's degree.

An academic certificate shall not be awarded to a student who does not possess either a bachelor's degree or

does not complete a bachelor's degree program. An academic certilicate is to be interdisciplinary in nature, to the greatest extent possible.

Professional Certificate: Awarded by an academic unit to an individual who completes the appropriate coursework in the area of concentration. The professional certificate does not need to be interdisciplinary or associated with a degree program.

For details and course requirements, refer to the appropriate section in each College or School.

College of Arts and Sciences Academic Certificates in

American Studies
Consumer Affairs
Environmental Studies
Ethnic Studies
Gerontological Studies
International Studies
Latin American and Caribbean Studies
Legal Translation and Court Interpreting
Linguistic Studies
Marine Science
Translation Studies
Tropical Commercial Botany
Western Social and Political Thought
Women's Studies

College of Business Administration

Banking International Bank Management International Business Marketing

College of Education: Offers a variety of Professional Certilicate and Add-On Teacher Certilication programs. Refer to the College of Education program listing section.

College of Engineering and Design

Professional Certificates in Apparel Manulacturing/Management Heating, Ventilation, and A/C Design Industrial and Labor Relations Industrial Salety Production and Manulacturing

Academic Certificate

Management and Consumer Affairs.

College of Health

Medical Record Coding Prosthetics and Orthotics

School of Hospitality Management

Hotel and Restaurant Management Travel and Tourism Management

School of Nursing Professional Certificate in

Advanced Nursing Practice in Adult Health

School of Public Affairs and Services

Academic Certificate

Labor Relations

Law and Criminal Justice

Professional Certificates in

Gerontology Justice Administration and Policy Making Public Management Public Personnel Management and

Office of Admissions

Florida International University encourages applications from qualified applicants without regard to sex, physical handicap, or cultural, racial, religious, or ethnic background or association.

Admission Procedure

Degree-seeking applicants can obtain an application for admission and related information from the Office of Admissions, PC 140, University Park, Tamiami Trail, Miami, Florida 33199; North Miami Campus, ACI-160, North Miami, Florida 33181; Broward Center, Whiddon Hall, Building 9, Room 226, 3501 S.W. Davie Road, Davie, Florida 33314; or by calling (305) 554-2363.

A completed Application and all supporting credentials must be on file with the Office of Admissions before a final decision can be made on the admission of an applicant. The following credentials are required for admission by the Florida

Board of Regents (BOR).

Application for Admission: A fifteen dollar (15) non-refundable application fee must accompany the completed Admission Application form. Applications will be kept on file for one year from the anticipated date of entry.

In addition to the application for admission, the following is required:

Freshman Applicants: The official secondary school transcript sent directly from the school; scores of either the Scholastic Aptitude Test (SAT) or the American College Test (ACT), sent directly from the testing agency.

Transfer Applicants: Official transcripts from all previous post-secondary institutions must be forwarded to the Office of Admissions by the Registrar of the previous institutions. It is the responsibility of the applicant to initiate the requests.

Student Health Form: Every admitted applicant must complete the Student Health Form supplied by the University.

Freshman Admission Requirements

The entering Freshman class is limited in number. Therefore, competition for placos is created by the quality and extent of our applicant pool. Every student predicting academic success will not have the opportunity of being admitted.

Students with strong ecademic preparation and high test scores will be given preference in a competitive admissions situation.

Requirements for Admission are:

- Graduation from an accredited secondary school.
- Nineteen academic units in college preparatory courses are required as follows:

English	4
Mathematics	3
Natural Science	3
Social Science	3
Foreign Language	2
Academic Electives ¹	4

Academic Electives are from the fields of mathematic, English, natural science, social science, and a foreign language. Two units in the same foreign language are required. The total units are 19.

- 3. A record of good conduct.
- 4. A personal interview when required.

Freshman applicants who do not meet the above criteria will be reviewed by the Committee on Admissions. Applicants who show potential in areas not easily evaluated by standard tests can be considered for admission under the admission exception rule.

Undergraduate Transfer Requirements

Degree-seeking applicants with fewer than 60 semester hours of transfer credits must satisfy the same admission requirements as beginning freshmen and must demonstrate above satisfactory performance in previous college level studies.

Applicants who have completed an Associate of Arts degree at a Florida public community college, or who have earned 60 semester hours of college credit at any other regionally accredited institution at an acceptable performance level, are eligible for admission to the University.

Applicants who have completed an Associate of Science degree, or who have earned 60 semester hours of college credit at a Florida public community college with a GPA of a least 2.0, are eligible for admission to the University.

Applicants who meet the above admission requirements, but who have not completed the remaining general education requirements, or the prerequisite courses for admission to a particular degree program, or both, may complete this preparatory work either in the colleges or schools of the University, or at a Florida public community college or accredited institution, or by achieving a satisfactory score on the appropriate

College Level Examination Program (CLEP) test.

All transfer applicants to the Upper Division from a public institution in Florida must present a passing score on the College Level Academic Skills Test (CLAST). All other Upper Division transfers must participate in the Pre-CLAST testing program during their first term of enrollment.

A minimum score of 500 is required on the Test of English as a Foreign Language (TOEFL) for non- English speakers.

Requirements for Admission to Undergraduate Teacher Education Programs

In the College of Education, all applicants for teacher education programs must score at or above the 40th percentile on a standardized college entrance test, (i.e. a total score of 840 or higher on the SAT, or a composite score of 17 or higher on the ACT). It is possible for an applicant who fails to meet this criterion to appeal the College of Education.

Readmission

An admitted degree-seeking student who has not enrolled in any course at the University for one year or more is eligible for readmission under the University and program regulations in effect at the time of readmission. Students must contact the Office of Admissions to apply for readmission.

Graduate Admissions

Applicants to a graduate program of the University must meet the minimum standards set forth by the Flonda Board of Regents, the University, and when applicable, additional requirements set by each department for admission to a graduate program. Applicants must check the individual departmental requirements

A student seeking admission into a graduate program of the University must have a bachelor's degree or equivalent from a regionally accredited institution or, in the case of foreign students, an institution recognized in its own country as preparing students for further study at the graduate level. The applicant must submit official copies of all transcripts.

In most cases, an applicant must, at a minimum, present either a 'B' average in upper level work, or a combined score of 1000 on the Graduate Record Exam (GRE) or a score of 500 on the Graduate Management Admission Tost (GMAT) when applicable and required by the individual department, or a graduate degree from an accredited institution

Annual Estimate of Costs

Single Student	Freshman/Sophomore	Junior/Senior	<u>Graduate</u>
	(30 Sem. hrs.)	(30 semhrs)	(24 sem hrs.
Tuition* Housing On-Campus** Board Books & Supplies Miscellaneous Health Insurance Fees***	\$3556.	\$3703.	\$4524,
	\$2109 \$4407.	\$2109 4407.	\$2109 \$4407,
	\$1610.	\$1610.	\$1610,
	\$500.	\$ 500.	\$ 500,
	\$1200 \$2000.	\$1200 \$2000.	\$1200 \$2000,
	\$350.	\$ 350.	\$ 350,
	\$100.	\$ 100.	\$ 100,

* Tuition fees are subject to change.

** Costs vary with choice of on-campus accommodations.

*** Health and Athletic Fees are required and must be paid at registration each semester. Currently, the Student Health Fee is \$23.50 and the Athletic Fee is \$10.00. International Students should add an additional 350 for Health Insurance

All graduate applicants, regardless of previous grade point average or degrees, are required to submit the appropriate test scores.

An applicant who fails to meet these criteria may appeal the admission decision and be considered under the BOR's Exception policy. This policy allows up to 10 percent of the graduate students admitted for a particular academic year as exceptions to the above criteria.

Foreign graduate applicants are accepted subject to space and fiscal limitations. In addition to the above University admission requirements. foreign applicants must be academically eligible for further study in their own country and must demonstrate proficiency in the English language by presenting a score of 500 or higher on the Test of English as a Foreign Language (TOEFL). For further information, refer to the International Admissions section

International Admissions: Undergraduate and Graduate Admission Standards and Procedures

International student applicants must meet the admission requirements of the University as described in the previous sections and comply with the following:

Academic Records: Appropriate official transcripts, or certified copies of academic records and their English translations validated by an official public translator, and all other appropriate credentials, must be forwarded to the Office of Admissions

Proficiency in English: Must be established if the native language is not English. The following is accepted: A minimum score of 500 on the TOEFL. For information, applicants should contact: TOEFL Program, Box 899, Princeton. New Jersey 08540, U.S.A.

Declaration and Certification of Finances: Upon receipt of the application for admission, the Declaration and Certification of Finances will be mailed to the applicant. It must be completed and returned to the office before the Certificate of Eligibility (Form I-20A) is issued.

The University is required by immigration authorities to check carefully the financial resources of each applicant prior to issuing the Form I-20A. Therefore, it is important that applicants are aware of the cost of attending the University and have the necessary support funds for the period of enrollment. Applicants should refer to the Annual Estimate of Cost Chart.

The total funds available for the student for the first or second academic year, or both, must equal the total estimate of institutional costs and living expenses. All items in the Declaration and Certification of Finances must be accurately answered to avoid unnecessary delay in processing. This document must be received by the Office of Admissions two months prior to the anticipated entry date.

Please refer to the Annual Estimate of Cost table for more information. A married student should plan on an additional 3.200 in costs to cover the living expenses of a spouse.

A couple with children should anticipate further yearly additional costs of no less than 1,000 for the first child, 800 for the second, and 600 for each additional child

Health Insurance: All international students are required to purchase health insurance coverage in order to help defray the cost of major medical expenses. The University recommends the policy endorsed by the National Association of Foreign Student Affairs. An informational brochure and application are mailed to each admitted student with

the I-20 "Certificate of Eligibility". This information is available also in the offices of Admissions and International Student Programs and Services. Students who do not select the NAFSA insurance policy are required to submit evidence of coverage by another source along with the Declaration of Finances.

Application Deadlines

Please refer to the Academic Calendar for appropriate dates.

Required Entrance Tests: Freshman applicants are required to submit the results of the Scholastic Aptitude Test (SAT) or the American College Test (ACT).

Graduate applicants are required to take either the GRE or the GMAT. For information on the tests, applicants must contact the Educational Testing Service. Princeton, New Jersey 08540, U.S.A. Information about test center locations may also be obtained at the American Embassy in the applicant's home country.

Tuition: An international student is considered a non-resident and is assessed non-resident fees. Immigration regulations require an international student to attend school at least two semesters within an academic year. An undergraduate student is required to take a minimum of twelve credit hours per semester, and a graduate student a minimum of nine semester hours per term. Please refer to the section on Student Fees and Student Accounts for more information

Full-Time Enrollment: The nonimmigrant alien student on an F-1 visa is required by United States immigration regulations to be enrolled full-time, except for the summer terms, and to make satisfactory progress toward the degree program in each term; otherwise the visa status may be jeopardized. Fulltime enrollment is defined as enrollment every term in, and successful completion of, a minimum of 12 semester hours (undergraduate), and a minimum of nine semester hours (graduate).

The laws and regulations of the United States Department of Justice. Immigration and Naturalization Service states:

It is the student's responsibility to comply with all non-immigrant alien requirements as stated under the United States laws under Section 101(a)(15)(f)(i) of the Immigration and Nationality Act. The University is required to report to the Immigration Office any non-immigrant alien student who: (a) does not register at the University at the time expected: (b) does not carry a full course of study; and (c) terminates attendance.

Granting official Extension of Stay is dependent upon the student's achieving normal academic progress toward the degree requirements.

Employment: An F-1 visa student may not be employed off-campus while attending the University unless permission has been granted by the U.S. Immigration and Naturalization Service. Normally, employment will not be permitted, especially during the student's first year of enrollment; but under very special circumstances, due to unexpected conditions or emergencies arising after the student's arrival, an international student may be recommended for a work permit. Adequate proof must be presented to the International Student Advisor to obtain the necessary recommendation. Oncampus employment can be authorized by the International Student Advisor.

Note: An international student will not be granted admission to the University until all academic and non-academic requirements have been met. Under no circumstances should a student come to the University without having received the official Letter of Admission and the I-20A Form. All correspondence and document submissions should be directed to: Office of Admissions, Florida International University, PC 140, University Park, Miami, Florida 33199 U.S.A., telephone (305) 554-2363.

The Office of Undergraduate Studies Academic Advising Center

Academic advising of students with fewer than 48 semester hours of earned credit is the responsibility of the Academic Advising Center in the Office of Undergraduate Studies. When admitted to the University, the student is assigned to an adviser who will help plan the student's academic program. At the completion of 24 semester hours of earned credits, the student can choose an Intended major, and after 60 semester hours, a student should officially declare a major. Students with intended or declared majors will be advised by faculty members or professional advisers in their major

All freshmen are required to participate in personalized Peer Adviser sessions and advising sessions offered by the Advising Center. Non-degreeseeking undergraduate students are also advised by this office.

Academic information is available in PC 115, University Park, and ACI-180, North Miami Campus.

University Learning Center/Testing Office Freshman Placement

All freshmen entering the University are required to participate in a series of placement tests prior to advising and registration, conducted the semester before attending the University. The components of the Freshman Testing/Placement Program include computational skills and standards of written English. Optional placement examinations are offered in modern languages and trigonometry. Students passing the optional examinations may be exempted from prerequisite Core Curriculum courses.

Newly admitted sophomore transler students with fewer than 48 credits who have not met the Core Curriculum requirements in mathematics or English must participate in the Freshman Testing/Placement Program and the advising sessions before they will be allowed to register for courses at the University. Sophomore transler students subject to the Core Curriculum may exempt from the language requirement by passing the appropriate language placement exam.

College Level Academic Skills Test (CLAST)

The State of Florida has developed a test of college level communication and computation skills. The test is called the College Level Academic Skills Test (CLAST). The office at the University is responsible for administering and processing the CLAST.

The CLAST is designed to test the communication and computation skills that are judged by state university and community college faculty to be associated with successful performance and progression through the baccalaureate level. The test is required by Florida statutes and rules of the State Board of Education.

The CLAST is administered three times a year, and students are encouraged to take it as soon as possible in their college careers. Students who do not take and pass CLAST will not be admitted to upper division status in state universities in Florida The CLAST requirements also apply to students transforing to state universities in Florida from private colleges in Florida and from out-of-state colleges.

Effective Fall Term 1984, the State Board of Education established minimum CLAST score standards for the award of the Associate of Arts and for admission to upper division status in state universities in Florida. The adopted standards follow:

	Fall 1984	Fall 1986	Fall 1989
Tests	Scores	Scores	Scores
Reading	260	270	295
Writing	265	270	295
Computation	260	275	295
Essay	4	4	5

Since Fall Term 1984, students must pass all four sections of CLAST to receive the Associate of Arts degree. Students may be admitted to upper division status at a State of Florida university by passing at least three of the lour sections of CLAST, However, students MUST pass the remaining section of CLAST by the time that they complete 96 college credits (includes all transfer credits and CLEP credit, etc.). Failure to pass the remaining section of CLAST will directly impact the student's eligibility to register for additional upper division courses at the University. Successful completion of CLAST is required for students to receive the baccalaureate degree from the University.

The CLAST, Freshman
Testing/Placement program, institutional
scholastic testing, and many national
testing programs are coordinated by the
Testing Office. The Testing Office of the
University Learning Center is located in
PC 245, University Park, 554-2840; and
ACI-180, North Miami Campus, 9405754.

University Learning Center/Academic Assistance

The Center is equipped to help students improve their reading and writing skills included among these skills are reading comprehension, reading speed, editorial skills, writing mechanics, and writing improvement Special emphasis is given to those student who need or want asistance passing the College-Level Academic Skills Test (CLAST) The Learning Center is located in Trailer 6 on the west side of University Park, 554-2180, and in ACI-180 at North Miami, 940-5754.

Core Curriculum Requirements

The Core Curriculum requirements apply to all students ontering the University with fewer than 48 semester hours. Students transferring with 48 semester hours or more may instead opt to fulfill the University's General Education Requirements. All students subject to the Core are informed of additional policies governing these requirements.

mandatory academic advising sessions in the Academic Advising Center of the Office of Undergraduate Studies (University Park PC 115; North Miami Campus ACI-180):

English Composition

(6 semester hours)

ENC 1101 Freshman Composition (Required first semester)

Techniques of **ENC 1102** Interpretation

> (Prerequisite: ENC 1101 required second semester)

Mathematics (6 semester hours) Entry-level Course:

Pre-Calculus MAC 2132

MGF 1202 Finite Math

Additional Mathematics Course: Qualified students may begin with a higher level mathematics course based upon Placement Test or AP scores. Satisfactory scores on the National AP Calculus exam will substitute for Calculus I only.

The additional mathematics course may be selected from CGS 2060, CGS 3403, and CGS 3420, and courses with prefixes COP, MAC, and STA.

Social Sciences (6 semester hours) Students must select courses from two different Social Science areas:

Anthropology:

ANT 2003 Introduction to Anthropology **ANT 3402** Anthropology of Contemporary Society

Economica: ECO 2013 Macro Principles ECO 2023 Micro Principles

International Relations:

INR 2001 Introduction to

International Belations

Political Science:

American Government POS 2042 **POT 2002** Introduction to Political Theory

Psychology: **PSY 2020**

Introduction to Psychology

Sociology: SYG 2000

Introduction to Sociology SYG 3002 The Basic Ideas of Sociology

hours; students must select one course

Natural Sciences (8 semester

with lab from Biological Sciences and one course with lab from Physical Sciences)

Biological Science with Laboratory (4 semester hours):

APB 1102C Introductory Botany (4) APB 2040 Foundations of Human Physiology (3) APB 2040L Foundations of Human

Physiology Lab (1) APB 2170 Introductory Microbiology (3)

Introductory APR 21701 Microbiology Lab (1) General Biology I (3) BSC 1010

BSC 1010L General Biology I Lab (1) BSC 1011 General Biology II (3) BSC 1011L General Biology II

Lab (1) BSC 2023 Human Biology (3) BSC 2023L Human Biology Lab (1)

Physical Sciences with Laboratory (4 semester hours):

AST 2100

Solar System Astronomy (3) AST 2100L Solar System Astronomy Lab(1) AST 2201 Stellar Astronomy (3)

AST 2201L Stellar Astronomy Lab (1) CHM 1032 Survey of General Chemistry (3)

CHM 1032L Survey of General Chemistry (1)

CHM 1045 General Chemistry I (4) **CHM 1045L** General Chemistry I Lab (1)

GLY 1010 Physical Geology (3) **GLY 1010L** Physical Geology Lab (1) PHY 3048 Physics with Calculus (5) PHY 3048L General Physics Lab (1)

PHY 3053 Physics without Calculus (4)

Languages

Students must acquire or demonstrate two-semester competency of any one

foreign language.

FRE 1120 Basic French I FRE 1121 Basic French II **GRE 1120** Classical Greek I **GRE 1121** Classical Greek II ITA 1120 Italian I ITA 1121 Italian II LAT 1120 Latin 1

LAT 1121 Latin II Basic Portuguese I POR 1130 POR 1131 Basic Portuguese II SPN 1120 Basic Spanish I SPN 1121 Basic Spanish II

Other languages such as Arabic. German, and Hebrew also are offered. The current schedule booklet indicates the courses offered by the Department of Modern Languages.

Arts (3 semester hours) The Arts requirement may be satisfied by any one Core course selected from the following areas

Humanities: **HUM 3211**

Music:

Ancient Classical Culture and Civilization HUM 3226 Medieval and Renaissance Culture

and Civilization **HUM 3233** Renaissance and Baroque HUM 3246 The Enlightenment and

the Modern World **HUM 3432** The Roman World **HUM 3435** The Medieval World HUM 4431 The Greek World

Literature: ENG 2012 Approaches to Literature

MUH 1001 Musical Art Course MUH 3116 Evolution of Jazz MUL 3011 Understanding and Enjoyment of Music I

MUL 3012 Understanding and Enjoyment of Music II

Theatre: THE 2020C Introduction to Theatre

Visual Arts: **ARH 2050** Art History I **ARH 2051** Art History II **ARH 4470** Contemporary Art **ARH 4710** History of Photography **ART 1201C** 2D Design **ART 1202C** 3D Design PGY 3410C Photography

Historical Analysis (3 semester hours; students must select one course

from the following: Prerequisite: ENC 11021 AMH 2015 Historical Analysis: The American Revolution

AMH 2053 Historical Analysis: Democracy in America FUH 2015 Historical Analysis: Athens, Sparta, and the

Peloponnesian War **FUH 2029** Historical Analysis: Medieval Chivalry

FUH 2069 Historical Analysis: The Russian Revolution **EUH 2074** Historical Analysis: De

Tocqueville and the French Revolution Historical Analysis: The **EUH 2235**

Romantic Tradition LAH 2092 Historical Analysis: The Latin Americans

WOH 1001 Historical Analysis: World Civilization

Philosophical Analysis (3 semester hours; Prerequisite: ENC 1102)

PHI 2011 Philosophical Analysis

World Prospects and Issues (3 semester hours; students must take

ana at the fall	owing after successfully	ARH 2051	Art History Survey II	HUM 3512	Art and Society
	semester hours)	ART 1201C	2D Design	HUM 3872	Perspectives of the
HUN 3191	World Nutrition	ART 1202C	3D Design	1101110012	Humanities
SSI 3240	World Prospects and	ART 3310C	Drawing (A 1000-level	HUM 3891	Perspectives of the
301 3240	Issues.	7.1.1. 00.100	art course will be		Humanities
	133433.		substituted for this	HUM 3813	Applied Humanities
			course)	HUM 3941	Applied Humanities
General	Education		,	HUM 4391	Human Concerns
Requiren	nente	History:		HUM 4406	Film and the Humanities
nequirei	ilents	•		HUM 4431	The Greek World
	Regents has defined the	AMH 2015	Historical Analysis: The	HUM 4450	Cultural Heritages and
	ation Requirements to		American Revolution		Cultural Changes
	semester hours. The	AMH 2053	Historical Analysis:	HUM 4491	Cultural Heritages and
University req		41411.0400	Democracy in America	HUM 4542	Cultural Changes Human Concerns
	students complete the 36	AMH 3100	American History, 1607-1850	HUM 4543	Literature and Philosophy
	rs before graduation. For	AMH 3200	American History,	HUM 4544	Literature and the
	ning the University with at ster hours, the	AIVIN 3200	1850-Present French	110101 4544	Humanities
	onsists of six semester		Revolution	HUM 4561	Ethics and the
	the areas of humanities,	AMH 3317	America and the Movies		Humanities
	natural science, and social	AMH 4560	History of Women	HUM 4555	Symbols and Myths
	12 semester hours of the		in the U.S.	HUM 5311	Art and Literature
Writing Requir		AMH 4570	Afro-American History	LIN 2000	Introduction to Language
	urses from the following list	EUH 2015	Historical Analysis:	LIT 2010	Introduction to Fiction
	General Education		Athens, Sparta,	LIT 2030	Introduction to Poetry
Requirements	at the University.	EUH 2029	Historical Analysis:	LIT 2040	Introduction to Drama
			Medieval Chivalry	LIT 3110	World Literature I
State Boar	d of Education	EUH 2069	Historical Analysis:	LIT 3120	World Literature II
Rule 6A-10	30	=======================================	The Russian Revolution	LIT 3200	Themes in Literature
		EUH 2074	Historical Analysis:	LIT 3383	Women in Literature
	Florida requires all public lleges and universities to		De Tocqueville and the French Revolution		
	cified amount of writing and	EUH 2235	Romantic Tradition	Liberal Studi	es:
	n their curriculum to	HIS 3001	Introduction to History	LBS 4692	Women in the Labor
		LAH 2092			Movement
ensure that st	udents have achieved		Historical Analysis: The Latin Americans		
ensure that st substantial co			Historical Analysis:	Modern Lang	
ensure that st substantial co	udents have achieved mpetency in these areas, ent must bo fulfilled within	LAH 2092 WOH 1001	Historical Analysis: The Latin Americans Historical Analysis: World Civilization	FRE 3500	juages: Civilization I
ensure that st substantial co This requirem the first two ye	udents have achieved mpetency in these areas. ent must bo fulfilled within ears of study.	LAH 2092	Historical Analysis: The Latin Americans Historical Analysis:	FRE 3500 FRE 4501	juages: Civilization I Civilization II
ensure that st substantial co This requirem the first two years Writing Re	udents have achieved mpetency in these areas. ent must bo fulfilled within ears of study. quirement	LAH 2092 WOH 1001	Historical Analysis: The Latin Americans Historical Analysis: World Civilization	FRE 3500 FRE 4501 FRW 3200	juages: Civilization I Civilization II Introduction to Literature
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PHI 2100 PHI 3500	Introduction to Logic	APB 2170 APB 2170L	Introductory Microbiology Introductory Microbiology	Apparel Man CHD 3220	Child Development:
PHI 3500	Metaphysics Ethics	AFB 2170L	Laboratory	CHD 3220	Infancy and Early
PHI 3762	Eastern Philosophical	APB 3253	Human Sexual Biology		Childhood
PHI 3/62	and Religious Thought	BSC 1010	General Biology I	CHD 4210	Middle Childhood and
PHM 3200	Social and Political	BSC 1010L	General Biology I	0110 4210	Adolescent Development
F 1 N 3200	Philosophy	DOC TOTAL	Laboratory	FAD 3232	Relationships
	• •	BSC 1011	General Biology II	FAD 2230	Family Life Cycle
Religious St		BSC 1011L	General Biology II	FAD 4340	Family Development
REL 3100	Religion and Culture	500 10112	Laboratory	1715 1010	r dinny boveropinent
REL 3172	Religion and Ethics	BSC 2023	Human Biology		
REL 3131	American Sects	BSC 2023L	Human Biology	Criminal Jus	tice:
751 4044	and Cults		Laboratory	CCJ 3011	The Nature and Causes
REL 3300	Religions of the World	OCB 2003	Introductory Marine		of Crime
			Biology		
Theatre:		OCB 2003L	Introductory Marine	Economica:	
ORI 3000	Basic Oral Interpretation		Biology Laboratory	ECO 2013	Macro Principles
THE 2020	Introduction to Theatre	PCB 2510	Issues in Genetics-	ECO 2013	Micro Principles
PGY 3020	Introduction to Film-		recDNA and IQ	ECO 2023	Micro Fillicipies
	Making				
THE 4110	Theatre History I	Chemistry:		Internationa	Relations:
THE 4111	Theatre History II	CHM 1032	Survey of General	INR 2001	Introduction to
THE 4370	Modern Dramatic		Chemistry		International Relations
TDD 0400	Literature	CHM 1045	General Chemistry I	INR 3043	Population and Society
TPP 3100	Introduction to Acting	CHM 1046	General Chemistry II	GEA 3000	World Regional
Mathemat	ice	CHM 3200	Survey of Organic		Geography
Mathemat	iics		Chemistry	GEO 3471	Political Geography
	or above College Algebra	Dietetics and	d Nutrition:	Political Sci	onco:
	urse may be in a Computer	HUN 2201	Principles of Nutrition	POS 2042	American Government
	ramming course.) A grade			POS 3044	Government and Politics
	ner shall be considered	Environmen	and Canadian	1 00 0044	of the U.S.
requirement.	ompletion of this	EVR 3010	Energy Flow in Natural		o o. o.
	its subject to Rule 6A.10.30	EVA 3010	and Man-made Systems		
		EVP 3011		Psychology:	
need six cred	dits of mathematics, three of	EVR 3011	Environmental	Psychology: CLP 3003	Personal Adjustment
need six cred which can be	dits of mathematics, three of a computer programming		Environmental Resources and Pollution	CLP 3003 CLP 4144	Personal Adjustment Abnormal Psychology
need six cred which can be or statistics of	dits of mathematics, three of a computer programming course. Students who	EVR 3013C	Environmental Resources and Pollution Ecology of South Florida	CLP 3003	Personal Adjustment Abnormal Psychology Introduction to
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need six cred which can be or statistics of matriculated three credits	dits of mathematics, three of a computer programming course. Students who	EVR 3013C EVR 4311	Environmental Resources and Pollution Ecology of South Florida	CLP 3003 CLP 4144	Personal Adjustment Abnormal Psychology Introduction to Community Psychology Human Growth and
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need six crec which can be or statistics or matriculated three credits must be in a CGS 2060 CGS 3403 CGS 3420 COP 2172 MAC 2132	dits of mathematics, three of a computer programming sourse. Students who prior to 1983 need only of mathematics, but they mathematics course. Introduction to Microcomputers COBOL for Non-Computer Science Majors FORTRAN for Engineers Programming in Basic Pre-Calculus	EVR 3013C EVR 4311 Geology: GEO 3200 GEO 3510 GLY 1010 GLY 1100 GLY 4650 OCE 3014	Environmental Resources and Pollution Ecology of South Florida Energy Resources Physical Geography Earth Resources Physical Geology Historical Geology Paleobiology	CLP 3003 CLP 4144 CYP 3003 DEP 3000 DEP 3001 DEP 3303 DEP 3402	Personal Adjustment Abnormal Psychology Introduction to Community Psychology Human Growth and Development Psychology of Infancy and Childhood Psychology of Adolescence Psychology of Adulthood Psychology of Aging Principles and Theories
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need six crec which can be or statistics of matriculated three credits must be in a CGS 2060 CGS 3403 CGS 3420 COP 2172 MAC 2132 MAC 3233 MAC 33311	dits of mathematics, three of a computer programming course. Students who prior to 1983 need only of mathematics, but they mathematics course. Introduction to Microcomputers COBOL for Non-Computer Science Majors FORTRAN for Engineers Programming in Basic Pre-Calculus Business Calculus Calculus Calculus I	EVR 3013C EVR 4311 Geology: GEO 3200 GEO 3510 GLY 1010 GLY 1000 GLY 4650 OCE 3014 Physics: AST 2200	Environmental Resources and Pollution Ecology of South Florida Energy Resources Physical Geography Earth Resources Physical Geology Historical Geology Paleobiology Physical Oceanography Modern Astronomy	CLP 3003 CLP 4144 CYP 3003 DEP 3000 DEP 3001 DEP 3303 DEP 3402 DEP 4464 EAB 4794	Personal Adjustment Abnormal Psychology Introduction to Community Psychology Human Growth and Development Psychology of Infancy and Childhood Psychology of Adolescence Psychology of Adulthood Psychology of Aging Principles and Theories of Behavior Modification Motivation and Emotion
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need six crec which can be or statistics or matriculated three credits must be in a CGS 2060 CGS 3403 CGS 3420 COP 2172 MAC 2132 MAC 3333 MAC 3311 MAC 3312 MGF 1202	dits of mathematics, three of a computer programming sourse. Students who prior to 1983 need only of mathematics, but they mathematics course. Introduction to Microcomputers COBOL for Non-Computer Science Majors FORTRAN for Engineers Programming in Basic Pre-Calculus Business Calculus I Calculus II Finite Mathematics	EVR 3013C EVR 4311 Geology: GEO 3200 GEO 3510 GLY 1010 GLY 1100 GLY 4650 OCE 3014 Physics: AST 2200 AST 2200L AST 2200L	Environmental Resources and Pollution Ecology of South Florida Energy Resources Physical Geography Earth Resources Physical Geology Historical Geology Paleobiology Paleobiology Physical Oceanography Modern Astronomy Stellar Astronomy	CLP 3003 CLP 4144 CYP 3003 DEP 3000 DEP 3001 DEP 3303 DEP 3402 DEP 4464 EAB 4794 EXP 3304 EXP 4605	Personal Adjustment Abnormal Psychology Introduction to Community Psychology Human Growth and Development Psychology of Infancy and Childhood Psychology of Adulthood Psychology of Aging Principles and Theories of Behavior Modification Motivation and Emotion Cognitive Processes Introductory Industrial/
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Sociology: SYG 2000 SYG 3002

Introduction to Sociology Basic Ideas of Sociology

Additional Policies and Requirements

A student who has recently graduated from a Florida public community college with an Associate of Arts degree will have met the University's General Education Requirements.

2. A student who has recently met the General Education Requirements of any institution in the State University System of Florida will have met the University's General Education Requirements.

3. A student who has taken the freshman and sophomore years in an accredited college other than a Florida public community college or an institution in the State University System of Florida may receive credit for courses meeting the University's General Education Requirements.

4. A student may be admitted before completing an equivalent general education program, provided such a program is completed at the University

prior to graduation.

5. Most departments require for admission to their degree programs certain freshman and sophomore courses in addition to the General Education Requirements. Applicants should consult the catalog section dealing with the program they which to putter to determine the nature and extent of the additional requirements.

Transfer Credit

For purposes of clarity, transferability refers to the conditions under which the University accepts credits from other post-secondary institutions. Applicability of credit toward a degree refers to the prerogative of the respective academic division to count specific credit toward a student's degree requirements. Normally, collegiate work will be considered for transfer credit only from post-secondary institutions which are fully accredited by a regional accrediting association. The Office of Admissions will evaluate the acceptability of total credits transferable to the University. Transfer credit will be applied as appropriate to a student's degree program. The authority to apply such credit to the degree rests with the academic division of the student's intended major. If a student chooses to transfer to another academic division within the University, credit previously earned at another post-secondary institution will be re-evaluated and applied as appropriate to the student's new degree program.

A maximum of 60 lower division semester hours taken at a two- or four- year institution may be counted toward a degree at the University. A maximum of 30 additional upper division semester hours taken at a senior institution may be counted toward a degree at the University.

Lower division courses in excess of 60 semester hours may serve to meet specific course requirements for an FIU degree but credit hours represented by these courses will not reduce the number of credit hours to be completed at the University.

A grade of "D" will be accepted for transfer. However, such a grade in coursework in the major field is subject to review and approval by the appropriate academic department. Credit from institutions not fully accredited by a regional accrediting association will not be accepted; however, when presented, it will be considered on an individual basis by the appropriate College or School, Credit from military schools will be transferred in accordance with the recommendations of the American Council on Education, Credit from foreign institutions will be considered on an individual basis.

Acceleration

The academic programs of the University are planned in such a manner that students may complete some of their division degree requirements through one or more of the mechanisms listed below. Specific information on the accelerated mechanisms utilized in each academic program is available from the department or program of the student's major.

Credit For Non-College Learning

Undergraduete: The award of credit for learning acquired outside of the university or classroom experience is the prerogative of each academic department or program. Only degreeseeking students are eligible to receive this type of credit. The significant loarning must be applicable to the degree program of the student, and should be discussed and appropriately documented at the time the desired program of study is initially discussed and decided with the student's program adviser.

Graduate: Graduate credit, per semester, will not normally be awarded for experiential learning. In cases where a student's learning experience would appear to have been sufficient to develop the understanding and skills

associated with a course that would otherwise be included in his or her graduate program of study, he or she will be allowed to register for Independent Study credits and demonstrate competency through development of an appropriate project acceptable to the faculty member who represents that specific area of specialization. Not more than 10 semester hours of a 30 semester hour master's degree, nor 15 semester hours of a 60 semester hour master's degree, may be so earned. A student wishing to have this policy waived, wholly or in part, may petition the Dean of the academic unit to which he or she has been admitted for special consideration, and final responsibility for a decision will rest with the Dean.

College Level Examination Program (CLEP)

The College Level Examination Program is designed to measure knowledge in certain subject matter areas of general education. There are two types of CLEP tests: General Examination and Subject Examination.

Because CLEP credit is regarded as transfer credit, no matter how earned, the maximum transferability of credit under CLEP, both General and Subject examinations combined, is 45 semester credits.

Not more than six semester hours will be transferred in each of the five areas of the General Examination (English, humanities, mathematics, natural sciences, social sciences/history). The English examination must be with essay and will not count towards the English Composition requirement.

For additional information on CLEP, contact the Office of Admissions.

Core Curriculum CLEP

The University awards credit for CLEP scores at the 50th percentile or higher. For students completing the Core requirements, only the following examinations will be recognized for credit. It is strongly recommended that CLEP examinations be taken prior to enrollment at the University

CLEP Subject Examinations:

American Literature, Analysis and Interpretation of Literature, Calculus. English Literature, General Biology, General Chemistry, General Psychology, Introduction to Sociology, Macro Economics, Micro Economics, Modern Language

General Education CLEP

The University awards credit for CLEP

scores at the 50th percentile or higher. For students entering with more than 48 semester hours, the following CLEP general examinations may meet the General Education requirements:

English Composition with Essay: A student will be awarded up to six semester hours of credit for English, less hours previously earned in any collegelevel English course. These credits will not count towards fulfilling the English Composition requirement.

Humanities: A student will be awarded up to six semester hours of credit if a satisfactory score is achieved.

Mathematics: A student will be awarded up to six semester hours of credit if a satisfactory score is achieved.

Natural Science: A student will be awarded up to three semester hours of credit in biology or physical science, or both, if a satisfactory score is achieved.

Sociat Science: A student will be awarded six semester hours of credit if a satisfactory score is achieved.

For additional information regarding the CLEP Subject Examinations, contact the Office of Admissions.

Advanced Placement

The University awards credit for Advanced Placement test scores of three, four, and five. For students completing the Core requirements, only the following examinations will be recognized for credit.

Advanced Placement: Art History, Biology, Calculus, Chemistry, English, French Literature, Government, Modern Language, Music Listening and Literature, Music Theory, Physics, Spanish Literature.

Faculty Scholars Program

Outstanding entering freshmen are selected each year for the distinguished Faculty Scholars Program.

The program provides scholarship aid and a rigorous academic curriculum, including honors seminars and courses, for full-time students. Scholarships are awarded solely on academic merit and are renewed each semester contingent upon the student's maintaining a minimum 3.3 GPA. Faculty Scholars enjoy several unique privileges and have access to an Honors Wing in the dormitories and the Faculty Scholars Lounge.

To meet the eligibility criteria, applicants must have:

- Outstanding high school performance; a minimum academic average of 3.5 in a college preparatory curriculum for the 9th, 10th, 11th, and 12th grades.
- 2. A total score of 1200 on the SAT or a total score of 27 on the ACT.
- Two recommendations by high school guidance counselors or teachers, or both.
- A 500-word autobiographical essay submitted with the application.
- A personal interview with the Faculty Scholar Director or designee.

For more detailed information, applicants should contact the Faculty Scholars Program, PC 115, University Park, 554-2892; or ACI-180, North Miami Campus, 940-5754.

Traveling Scholar Program

The University participates in a traveling scholar program which enables a graduate student to take advantage of special resources, special course offerings, research opportunities, unique laboratories, and library collections available on another campus but not available on his or her own campus. Further information may be obtained from the Dean of the graduate program in which the student is enrolled.

Premedical Advisement

For their initial advisement, students interested in entering professional schools of medicine, dentistry, optometry, or veterinary medicine should contact either the Department of Biology. OE 246, 554-2201, or the Department of Chemistry, OE 200, 554-2606, at University Park at the earliest possible time. After completing a substantial portion of their professional courses or at the end of their junior year, and prior to the Fall Term in which they plan to apply to professional schools, students should contact the Chairperson of the Premedical Advisement and Evaluation Committee in the College of Arts and Sciences. The Committee provides additional advisement for students wishing to enter the health professions and prepares recommendations for those applying to professional schools.

Pre-Law Advisement

Students interested in receiving information on pre-prolessional education, on application procedures, testing, and references should contact either the Department of Political Science in the College of Arts and Sciences or the Department of Criminal Justice in the School of Public Affairs and Services. A faculty adviser in either department will advise students who plan to attend law school.

Office of Registration and Records

The Office of Registration and Records is responsible for directing the University Registration activities, and establishing, maintaining, and releasing students' academic records. The office is also responsible for space and scheduling, Veteran's Affairs, off-campus registration, and graduation.

The University Park office is located in PC 130, 554-2383, the North Miami Campus office is located in ACI-160, 940-5750, and the Broward Center office is located on the Broward Community College Central Campus in Whiddon Hall (Building 9). Room 233, 948-6747.

Classification of Students

The University classifies students as follows:

Degree-Seeking Students

This category includes students who have been admitted to a degree program, but have not completed the requirements for it

Freshmen - Students who have earned fewer than 30 semester hours.

Sophomores - Students who have earned at least 30 semester hours but fewer than 60 semester hours.

Juniors - Students who have earned at least 60 semester hours but fewer than 90 semester hours.

Seniors - Students who have earned 90 or more semester hours but who have not earned a baccalaureate degree. Graduate - Students admitted to a graduate program.

Non-Degree-Seeking Students

These students may be either affiliated or unaffiliated in their status. Unaffiliated students are limited to taking one semester of courses at the University. Affiliated students must be approved by the appropriate College or School and must meet its specific requirements. Under no circumstances may more than 15 hours taken as a non -degree-seeking student be applied toward graduation requirements at the University if the student should change from non-degree-seeking to degree-seeking status.

The following regulations will apply to non-degree-seeking students:

1. Such students are not required to meet the usual admission requirements and are not officially admitted as regular students. Enrollment as a non-degreeseeking student doos not imply a right for future admission as a regular, degreeseeking student Credit earned will not be counted toward a degree at the Univorsity unless such students subsequently apply for regular admission and are accepted as undergraduate or graduate students.

2. Registration is permitted on a space-available basis and is determined at the time of registration. Non-degreeseeking students may not register during the official registration week for degreeseeking students.

§ 3. No more than 15 undergraduate level and 12 graduate level semester hours earned as a non-degree-seeking student may be counted toward a degree. The appropriate Dean must approve the acceptance of such credit.

4. Non-degree-seeking students will not be allowed to register for more than one term without obtaining admission to a degree program at the University; obtaining admission into a formal Certificate Program; or acquiring affiliated status from the department in which they are registering.

5. Applicants denied admission to the University will not be allowed to register as non-degree-seeking students for a period of one year without obtaining admission into a format Certificate Program or obtaining affiliated status from the appropriate academic department

6. Immigration regulations prevent most toreign nationals from enrolling without being admitted into a formal degree or certificate program, depending on the visa type. Therefore, international students will not be permitted to enroll as non-degree-seeking students without the permission of the Admissions Office.

Transient Students

This category includes students who are fully admitted and are actively pursuing a degree at another accredited two or four year institution. Such students will need to present evidence of their status each semester before they will be allowed to register.

Affiliated Students

Students applying for affiliated status as non-degree-seeking students must be approved by the appropriate Dean's Office in accord with criteria approved by that College or School's Faculty Curriculum Committee.

Certificate Students

This category includes students who have been accepted into a specific cortificate program by the academic department responsible for that program Certificate programs are subject to all University regulations.

College/Major Classification

Lower division students have a college designation of lower division with a major

designation of their intended major (if indicated by the student). This does not imply subsequent admission to that degree program.

Degree-seeking upper division students admitted to an upper level degree program are classified according to the college or school and major of their degree program, and the college or school and major of their second major, when applicable.

When admitted students reach a total of 60 or more credit hours (including transfer and current enrollment), they may apply for admission into an upper division major, provided they have passed the CLAST. All degree-seeking undergraduates must be admitted into an upper division major prior to completing 75 credit hours, including transfer hours.

Graduate students will be classified according to the college or school and major of their degree program.

Full-time course load: Undergraduate, 12 semester hours; graduate, nine semester hours.

Academic Degree Requirements

Bachefor's Degree: The University will confer the bachelor's degree when the following conditions have been met:

Recommendation of the faculty of the College or the School awarding the dogree.

Certification by the Dean of the College or the School concerned that all requirements of the degree being sought have been completed.

 Completion of the last 30 credit hours at the University. Exceptions (normally not to exceed six hours) may be made in advance by the appropriate Dean.

4. Completion of the General Education Requirements or, in the case of students admitted with lower than 48 transfer hours, the Core Curriculum.

5 A GPA of 2 0 or higher at the University

6. Grade requirements for major, core courses, and course se-quences established by the appropriate College or School

Master's Degree The University will confer the master's degree when the following conditions have been met

Recommendation of the faculty of the College or the School awarding the degree.

2 Certification by the Dean of the College or the School concerned that all requirements of the degree being sought have been completed

 An overall average GPA of 3.0 earned in all courses

4 Grade requirements for major, core courses, and course sequences

established by the appropriate College or School.

Doctoral Degree: The University will confer the doctoral degree when the lollowing conditions have been met:

1. Recommendation of the faculty.

- Recommendation of the faculty of the College or School awarding the degree.
- Completion of the residency and time limitation requirements.
- 3. Satisfactory completion and defense of a doctoral dissertation.
- Certification to the Registrar by the Dean of Graduate Studies that all academic requirements have been met.

Two Bachelor Degrees: Two bachelor degrees may be awarded simultaneously when the following conditions have been met:

- Requirements for two majors have been completed as certified by the appropriate academic units.
- A minimum of 30 appropriate semester hours in addition to the requirements of one degree has been earned.
- 3. A graduate from an accredited four-year institution who applies for admission to work toward a second bachelor's degree must meet the requirements of the major department which shall include (but is not limited to) a minimum of 30 semester hours of coursework.

Two Majors for a Bachelor's Degree: Any undergraduate student who elects to do so may carry two majors and work to fulfill the requirements of both concurrently. Upon successful completion of the requirements of two majors, the student will be awarded one degree and a notation denoting both majors will be entered on the transcript. A Request for Second Major Form must be filled out in the Office of Registration and Records to declare two majors.

Minors and Certificate Programa: Students who have completed an approved minor as part of their baccalaureate degree program will have

this notation as a part of the degree comment on their transcript. Students who have completed an approved certificate program will have an

appropriate notation placed on their transcript.

Associate of Arts: Students who satisfactorily complete 60 semester hours of acceptable college work with an overall GPA of 2.0 or higher, fulfill the Lower Division Core requirements, pass all sections of the College Level Academic Skills Test, and complete at least 20 credit hours in residence at the University may apply for the Associate of Arts degree. The degree will not be awarded after completion of the baccalaureate degree.

A notation will appear on the student's transcript but no diploma will be issued.

Summer Enrollment

All students entering a university in the oredit hours shall be required to earn at least nine credit hours prior to graduation by attending one or more summer terms at a state university.

Academic Definitions Program and Course Regulations

Credit Hour: The term "credit hour" as used refers to one hour of classwork or the equivalent each week for an entire academic term.

Major: An integral part of the bachelor's and master's degree is a major concentration of coursework in an approved academic discipline or area. The exact course and credit requirements and prerequisities for each major are outlined in the departmental program areas in the Catalog.

Electives: Students may usually select courses from any academic area to complement their area or areas of study or to meet their interests in order to fulfill the credit hour requirements for the bachelor's or master's degree. Prerequisite course requirements should be considered in selecting elective courses. Students should refer to their academic program requirements concerning electives.

Minor Program: A minor program is an arrangement of courses that enables students to develop some degree of expertise in one area of study. A minor is awarded upon completion of the bachelor's degree, but is not interdisciplinary in nature.

Certificate Program: In the Colleges and Schools of the University, a certificate program is a combination of courses with a common base or interest selected from one or more academic disciplines and so arranged as to form an area of academic concentration. Three types of certificates are awarded: Academic, professional, and continuing studies. Students must apply and be admitted into the Professional certificate program.

Change of College/School or Major: A fully admitted undergraduate student can change majors, provided he or she meets the entrance requirements of the new program, by submitting a "Request for Change of College/School or Major" form. The lorm and instructions are available in the Office of Registration and Records. The student is subject to the program

requirements in effect at the time of the change of major. All undergraduate students should submit a "Change of Major" form upon completion of 60 semester hours of coursework. A fully admitted graduate student can change majors, provided he or she meets the entrance requirements of the new program, by obtaining and submitting the form to the Office of Admissions. The student is subject to the program requirements in effect at the time of the change of major.

Registration

The following registration information is subject to change and students must verify the dates with the Office of Registration and Records, PC 130, University Park; or ACI-160, North Miami Campus; or at the Broward Center, BCC Central Campus, Whiddon Hall (Building 9), Room 223.

Registration for courses is as follows: Registration Week is held during the preceding semester (check the Academic Calendar for the dates) and ends one week later. Degree seeking students are given an appointment day and time based on their classification, GPA, and credit hours completed. Students may not add/drop at this time.

Open Registration is held following Registration Week and lasts for one week only. There is no appointment day and time and registration is on a first-come, first-served basis. All students who have not yet registered are encouraged to do so at this time. Students who have already registered may add or drop courses during this period.

Registration Day is held prior to the beginning of the term and is for one day only. Students who have not registered should do so at this time to avoid a late registration lee. (Check the Academic Calendar for the date).

All Students, degree and nondegree-seeking, registering for more that 18 credit hours during one semester must obtain the approval and the signature of the Dean of their College or School.

Telephone Registration

Fully admitted, degree-seeking students are able to register and add and drop courses using a touchtone telephone. Students able to use this system are given a security access code and information on the Voice Response Telephone Registration system by the Office of Registration and Records.

immunization

To register for courses, students must provide the University Health Clinic (OE 115, University Park; TC 110, North Miami Campus) with documentation of immunization against measles and

rubella. Students should contact the Health Clinics for more information.

Late Registration Fee

Any student, degree-seeking or nondegree- seeking, who initiates registration after Registration Day is assessed a \$25 late registration fee. A student may initiate late registration during the first week of classes.

Dropping and Adding Courses

The Official Drop/Add period runs throughout the first week of classes (refer to the Academic Calendar for specific dates). During this period a student may add courses or register with a late registration fee. Students may also drop courses or withdraw from the University with no records kept of the courses and without a tuition fee liability. The student must submit a drop/add card to the Office of Registration and Records to drop a course officially. If the tuition fee has already been paid, the student must complete a Refund Request Form with the Cashier's Office.

Late Adds

Students may add courses with appropriate authorization and signatures until the end of the second week of classes. No course can be added after this deadline

Late Drops

Courses officially dropped after Drop/Add period and through the eighth week of the term are recorded on the student's transcript with a symbol of DR (dropped). The student is financially liable for all dropped courses. The student must submit a Course Drop Form to the Office of Registration and Records to drop a course officially. Non-attendance or nonpayment of courses will not constitute a drop.

Withdrawal from the University

A currently registered student can withdraw from the University only during the first eight weeks of the semester. In the Summer Semester, withdrawal deadlines will be adjusted accordingly. A Withdrawal Form must be completed and submitted to the Office of Registration and Records Non-attendance or non-payment of courses will not constitute a drop. (Refer to the Academic Calendar for the deadline dates.)

The transcript record of a student who withdraws before or during the Drop/Add period will contain no reference to the student's being registered that semester and no tuitton fee is assessed if the tuitton has already been paid, a Refund Request Form must be completed

at the Cashier's Office. If a student withdraws from the University prior to the end of the fourth week of classes, a 25 percent refund, less a bonding fee, will be made.

The transcript record of a student who officially withdraws after Drop/Add period and before the end of the eighth week of the term will contain a WI for each course.

The transcript record of a student who stops attending the University without officially withdrawing from the University will contain an F grade for each course. The deadline to submit this appeal is the last day of classes of the term.

Grading System

C	Grade Point	
Grades	Credit	
A		4.00
Α-		3.67
B+		3.33
В		3.00
B-		2.67
C+		2.33
С		2.00
C-		1.67
D+		1.33
D	_	1.00
D-	•	0.67
F	Failure	0.00
Р	Satisfactory (Pass)	N/A
IN	Incomplete ¹	N/A
WI	Withdrew from University	N/A
WP	Withdrew after deadline	
	with passing grade	N/A
WF	Withdrew after deadline	
	with failing grade	0
AU	Audit	N/A
DR	Dropped Course	N/A
DP	Dropped after deadline	
	with passing grade	N/A
DF	Dropped after deadline	
	with failing grade	0
NR	Grade Not Reported	
	or Invalid ²	N/A
EM	Examination	N/A

¹IN is only a temporary symbol. It will revert to the default grade after two terms

²NR is only a temporary symbol. It will default to an F after two terms if it is not changed by the instructor

Note. All courses for which a student is officially registered at the ond of the Drop/Add period and in which a Letter Grade, a DF, or a WF is received are calculated in the GPA.

Grading Options

The Colleges and the Schools make the determination of the grading option of each course. A course may be offered for a lotter grade as listed above or Pass/Fall, or for an optional grade in

which the student has a choice of either receiving a letter grade or pass/fail; or the student may choose to audit a course and an AU grade will be recorded on the student's records. The grading option must be indicated at the time of registration. The grading option cannot be changed after the Drop/Add period. There are no exceptions to this deadline.

To register for an audit, the student must obtain the permission and signature of the instructor of the course audited.

incomplete Grade

An incomplete grade is a temporary symbol given at the discretion of the instructor for work not completed because of serious interruption not caused by the student's own negligence. An incomplete must be made up within two semesters or it will automatically default to the grade that the student earned in the course. There is no extension of the two semester deadline. The student must not register again for the course to make up the incomplete.

Forgiveness Policy

A forgiveness policy is a way in which a student may repeat a limited number of courses to improve his or her grade point average (GPA) by having only the grade received on the last repeat used in its calculation. Under the University's forgiveness policy, a student must file a Repeated Course Form with the Office of Registration and Records. The form must be submitted no later than one year after the semester in which the grade was received. All courses taken with the grades earned will be recorded on the student's transcript. The repeated course form will not be processed if the first or repeated grade received is DR. DP. WI. WP. AU. NR. or EM. Repeated courses will be appropriately designated (T attempted: R: last repeat)

Undergraduate students may take advantage of the forgiveness policy only four times for the purpose of improving their GPA. The same course may be repeated up to four times or the student may use the four opportunities to apply to four different courses. Only the final grade for the four courses repeated under the forgiveness policy will count in computing the student's GPA The recalculation of the GPA is an internal University policy only, and one which may not be followed by other institutions and/or services. In order for a course to be considered as repeated and lead to the adjustment of the GPA, the course must be the same and must be repeated at the University Students who have used their four options linder the forgiveness policy may still rupeat courses. However, both the original grade. and any additional grades received.

through repetitions of the course will be used in computing the GPA.

Graduate students may repeat no more than two courses under this rule with no course being repeated more than once. The course shall be repeated on a letter grade basis. Only the grade and credit received in the second attempt shall be used in computing the overall GPA. However, the original grade will remain posted on the student's permanent record, but will not be used in computing the overall GPA.

A course taken on a letter grade basis must be repeated on the same basis. Student will not be allowed additional credit or quality points for a repeated course unless the course is specifically designated as repeatable (independent study, studio courses, etc.). If a student is not using the forgiveness policy, he or she may still repeat a course. All attempts will apply to computation of the GPA but credit for one attempt will apply toward graduation. Students must check with the appropriate academic department to determine whether there are additional restrictions on repeating

Departmental Credit by Examination

Departmental credit by examination is available for certain courses. A student who has already gained knowledge of a subject offered at the University and who wishes to take an examination in lieu of taking the course should discuss the matter with his or her academic advisor and with the department offering the course.

Awarding departmental credit by examination is the prerogative of each academic unit. To receive credit by examination, a student must be a regular degree-seeking student, register, and pay for the courses in the regular manner. Once the student is awarded the Departmental Credit by Examination, an EM grade will be recorded on the transcript.

Change or Correction of Grades

Once submitted, end-of-semester grades (except Incompletes and NR's, which default at the end of two terms) are final and are subject to change only through a Change of Grade Form to correct an error in computation or transcribing, or where part of the student's work has been unintentionally overlooked.

Final Examinations

Final course examinations will be given during the week following the last day of classes during each semester. The Summer semesters do not have final examination periods and course examinations may be given at the discretion of the faculty member teaching the course.

Grade Reports

At the end of each semester, the Office of Registration and Records mails each registered student a copy of his or her end of term grades.

Dean's List

Any fully admitted undergraduate student who earns a semester average of 3.5 or higher on nine or more semester credit hours of coursework for which grade points are earned, is placed on the Semester Dean's List. This achievement is noted on the student's semester report of grades and permanent academic record (transcript).

Application for Graduation

Each student who plans to graduate is required to submit to the Office of Registration and Records an Application for Graduation form. This form, supplied by the Office of Registration and Records, must be submitted before the end of the third week of classes of the academic semester in which graduation is expected. A student turning in the Application for Graduation after the deadline will graduate the following semester. There is no charge for applying for graduation. The Application for Graduation must be signed by the academic advisor prior to being submitted to the Office of Registration and Records

A student denied graduation must complete the remaining requirements needed for graduation and must re-apply for graduation.

Academic Honors (Undergraduate)

To graduate with Highest Honors, a student must have earned a cumulative GPA of 4.0.

To graduate with High Honors, a student must have earned a cumulative GPA between 3.75-3.999.

To graduate with Honors, a student must have earned a cumulative GPA between 3 50-3 74

To graduate with the above honors, the student must have completed forty semester hours at the University for which grade points are awarded.

Academic Warning, Probation, and Dismissal

Warning: A student whose cumulative

GPA falls below a 2.0 (undergraduate) or 3.0 (graduate) will be placed on warning, indicating academic difficulty.

Probation: A student on warning whose cumulative GPA falls below 2.0 (undergraduate) or 3.0 (graduate) will be placed on probation, indicating serious academic difficulty. The College/School of the student on probation may appropriately communicate conditions which must be met in order to continue to enroll.

Dismissal: A student on Probation whose cumulative and semester GPAs fall below a 2.0 (undergraduate) or 3.0 (graduate) will be automatically dismissed from his or her program and the University. An undergraduate student will not be dismissed if his or her GPA remains above the graduation requirement of 2.0 and prior to attempting a minimum of 20 semester hours of coursework. A graduate student will not be dismissed if his or her GPA remains above the graduation requirement of 3.0 and prior to attempting a minimum of 12 hours of coursework as a graduate student. The student has ten working days to appeal the dismissal decision. This appeal must be made in writing to the Dean of the College or the School in which the student is admitted. The dismissal from the University is for a minimum of one year. After one year, the student may apply for readmission (see Readmission) to the University in the same or a different program, or register as a non-degree seeking student. There are no exceptions to the one year waiting period.

Dismissed students applying for admission or registering as non-degree seeking students are placed on academic probation.

Student Records

Florida International University assures the confidentiality of student educational records in accordance with State University System rules, state, and federal laws including the Family Educational Rights and Privacy Act of 1974, as amended. Student academic records are maintained in the Office of Registration and Records and in the academic department of the student's major. As a rule, all currently enrolled and former students have the right to review their records to determine their content and accuracy. Parents of dependent students, as defined by the Internal Revenue Code, and who give evidence of the dependent status, have the same rights. For the cost of photocopying, students may generally have copies of any documents in their file, except for other institutions' transcripts.

Transcripts

The transcript is the complete student record of courses taken at the University, in addition to the number of transfer credits accepted. The GPA is calculated for all courses taken at the University after Fall Term 1975 whether the courses are in the major program or not. Once a baccalaureate , master's , or doctorate degree is earned, the GPA recalculation starts again.

A student must request his or her transcript in writing. There is a processing period. The transcript will not be released if the student has a University financial liability.

Class Attendance

The University does not have an attendance policy. However, individual faculty may establish attendance criteria in classes where it is necessary for academic reasons. Academic units may establish their own attendance policies with the approval of the Provost.

Veterans Information

The Office of Veterans Affairs assists all veterans and their dependents who wish to receive VA educational benefits. The Office also provides personal counseling, fee deferments, tutorial assistance, and work-study jobs. The VA Office is located in PC 130, University Park; and in ACI-160, North Miami Campus.

Veterans who are planning to attend the University should contact the Office of Veterans Affairs two months prior to the date of entry in order to expedite the processing of paperwork required to obtain educational allowances from the Veterans Administration

	Training Status Undergraduate	Graduate
Full time	12 Credits	9 Credits
3/4 time	9 Credits	7 Credits
1/2 time	6 Credits	5 Credits
Less than		
1/2 time	5 Credits	4 Credits

Rate of Payment¹ Number of Dependents

	none	one	two	each add'l.
Full time	\$376.00	\$448.00	\$510.00	\$32 00
3/4 time	283.00	336.00	383.00	24 00
1/2 time	188.00	224.00	255.00	17.00
Less tha	in			

1/2 time Cost of Tuition

1Chapter 34 & 35. See office for other chapters.

For additional information regarding other Veterans Educational Programs, contact the Office of Veterans Affairs at Univorsity Park, PC 130, 554-2838.

Status Certification

The Veterans Affairs Office also verifies the school status of all past and present students for purposes of Social Security, tuition reimbursement, employment, and loan deferrals.

Enrollment Status

Undergraduate:

Full time: 12 credits or more. Half time: 6 - 11 credits. Less than half time: 5 credits or less.

Graduate:

Full time: 9 credits or more. Half time: 6 - 8 credits. Less than half time: 5 credits or less.

Florida Residency Information

Fiorida Student Definition

For the purpose of assessing registration and fultion fees, a student shall be classified as a "Florida' or "non-Florida' Resident

To qualify as a "Florida' Resident, the student must:

 Be a U.S. Citizen, Resident Alien, parolee, Cuban National, Vietnamese Refugee, or other legal alien so designated by the U.S. Immigration and Naturalization Service.

2. Have established a legal residence in this State and have maintained that legal residence for twelve months immediately prior to the start of the term in which the student is seeking Florida resident dassification. The student's residence in Florida must be as a bona fide domiciliary rather than for the purpose of maintaining a mere temporary residence or abode incident to enrollment in an institution of higher education, and should be demonstrated as indicated below (for dependent students as defined by IRS regulations, a parent or guardian must qualify), and

3. Submit the following documentation (or in the case of a dependent student, the parent must submit documentation) prior to the last day of registration for the term for which resident status is sought;

a. Documentation establishing legal residence in Florida (this document must be dated at least one year prior to the first day of classes of the term for which resident status is sought). The following documents will be considered in determining legal residence:

(1.) Declaration of Domicile

(2.) Proof of purchase of a home in Florida which the student occupies as his or her residence.

(3.) Proof that the student has maintained residence in the state for the preceding year (e.g., rent receipts, employment record).

- b. Documentation establishing bona fide domicile in Florida which is not temporary or merely incident to enrollment in a Florida institution of higher education. The following documents will be considered evidence of domicile even though no one of these criteria, if taken alone, will be considered conclusive evidence of domicile (these documents must be dated at least one year prior to the first day of classes of the term for which resident status is sought):
 - (1.) Declaration of Domicile
 - (2.) Florida Voter's registration (3.) Florida Driver's license
 - (4.) Proof of real property

ownership in Florida (e.g., deed, tax receipts).

(5.) Employment records or other employment related documentation (e.g., W-2, paycheck receipts), other than for employment normally provided on a temporary basis to students or other temporary employment.

(6.) Proof of membership in or affiliation with community or state organizations or significant connections

to the State.

(7.) Proof of continuous presence in Florida during the period when not enrolled as a student.

(8.) Proof of former domicile in Florida and maintenance of significant connections while absent.

(9.) Proof of reliance upon Florida sources of support.
(10.) Proof of domicile in Florida of

family. (11.) Proof of admission to a

licensed practicing profession in Florida.

(12.) Proof of acceptance of

permanent employment in Florida

(13.) Proof of graduation from high school located in Florida.

(14.) Any other factors peculiar to the individual which tend to establish the necessary intent to make Florida a permanent home and that the individual is a bona fide Florida rosident, including the age and general circumstances of the

individual.

c. No contrary evidence establishing residence elsewhere.

d Documentation of dependent/ independent status (IRS return or affidavit)

A student can also qualify for 'Florida' residency by one or more of the following criteria

Become a legal resident and be married to a person who has been a legal resident for the required twelve month period, or.

Be a member of the Armed
Forces on active duty stationed in
Florida, or a spouse or dependent, or,

3 Be a member of the full-time instructional or administrative staff of a

state public school, state community college or state university in Florida, a spouse or dependent, or

 Be a dependent and have lived five years with an adult relative who has established legal residence in Florida, or

5. Be a former student at a public institution of higher education who was properly classified as a resident who reestablishes domiciliary status and reenrolls within a period of twelve months, or.

 Make a statement as to the length of residence in Florida and qualification under the above criteria.

Financial Aid

The University adheres to the philosophy that a student is entitled to a college education regardless of his or her financial condition. The Financial Aid Program at the University includes scholarships, grants, loans, and employment. Instructions on how to apply for financial aid are listed under Application Procedures for Financial Aid. The Financial Aid Office is located in PC 125, University Park, 554-2431; and in ACI-160, North Miami Campus, 940-5765.

Grants and Scholarships

Grants and Scholarships are monetary gifts based on financial need or merit. Neither type of award requires work or repayment. For most Federal and State grants, students must demonstrate financial need to receive an award.

Pell Grant: This is a federal grant program designed to provide financial assistance to students pursuing their first undergraduate degree. The U.S. Department of Education evaluates the information reported on the application and determines the student's eligibility using a standard formula, passed into law by Congress. The Student Aid Report (SAR) is mailed to the student indicating eligibility status and index number.

Students must bring or mail the SAR to the Financial Aid Office, even if denied a Pell Grant. The amount of the award will vary according to the student's enrollment category each term. The Financial Aid Office will determine the grant's dollar value (if any) and include it in the award letter.

(Refer to Eligibility Criteria section to determine eligibility requirements.)

Supplemental Educational Opportunity Grant (SEOG): This federal grant provides gift aid for a limited number of first-time undergraduate students. Awards range from \$100 to \$4,000 per year depending upon financial need.

(Reter to Eligibility Criteria section to determine eligibility requirements.) FlorIds Student Assistance Grant (FSAG): The FSAG is a state grant which provides awards ranging from \$200 to \$1,300 per academic year for four years. The grant is available only to first-time undergraduate Florida residents who have resided in the state for at least 24 consecutive months, are citizens or permanent residents of the United States, and can demonstrate financial need.

To be considered, students must complete a Financial Aid Form by the application deadline of April 15 for the following Fall term. Recipients are selected by the Florida Department of Education, Office of Student Financial Assistance, and award amounts are based on the student's financial need and availability of funds.

Florida Undergraduate Scholars (FUS): This program is administered by the Florida Department of Education and provides scholarships to Florida high school graduates who have been bona fide residents of the state for the two years preceding the receipt of the award and plan to attend a Florida college or university.

Applicants must be recognized by the National Ment Scholarship Corporation as scholars or finalists, or have attained a 3.5 GPA on an unweighted 4.0 scale in high school, and score 1200 or higher on the SAT, or 28 on the ACT. Recipients must enroll as fulltime students each term.

Initial year applications may be obtained through high school guidance counselors. Benewal applications are mailed to current recipients by the Florida Department of Education, Office of Student Financial Assistance.

Loans

There are two basic types of loans: longterm and short-term or emergency loans. Long-term loans are low interest awards that must be repaid after the student is no longer enrolled in an institution of higher education. Short-term or emergency loans are awarded on a short term basis and do not carry any interest.

Perkins Loan (formerly NDSL): This federally funded loan is available to undergraduate and graduate students. Undergraduate students may borrow a total of \$9,000 during their undergraduate years, while graduate students may borrow up to \$18,000 including any loans received at the undergraduate level.

There is no interest on the loan while the student is enrolled at least part-time. The repayment period begins at 5% interest nine months after the student ceases enrollment at an institution of higher education. Maximum repayment time is 10 years and a minimum payment of \$30 per month is required.

Borrowers who work in specially designated jobs or geographical areas may have part or all of their Perkins Loan repayment obligation canceled. Borrowers also may be eligible to have their payments delerred or postponed for specific periods of time.

(Refer to Eligibility Criteria section to determine eligibility requirements.)

Stafford Student Loan (formerly Guaranteed Student Loan): This federal

5% Perkins Loans Repayment Chart

0 / 0 1 Ottom D 20 2 / 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0 /					
Amount Borrowed	Total Amount Monthly Payments	Number of Monthly Payments	Final Payment	Total Interest	Amount Repaid
\$ 500.00	\$ 30.00	18	\$ 9.30	\$ 19.30	\$ 519.30
1.000.00	30.00	36	28.87	78.87	1,078.87
1,500.00	30.00	57	5.54	185.84	1,685.54
2.000.00	30.00	79	7.93	347.93	2,347.93
2,500.00	30.00	103	17.34	577.34	3,077.34
3.000.00	31.82	120	31.77	818.35	3,818.35
4.000.00	42.43	120	41.84	1,091.01	5,099.01
5.000.00	52.03	120	53.06	1,363.63	6,363.63
7,500.00	79.55	120	79.42	2,045.87	9,545.87
10,000.00	106.07	120	105.37	2,727.70	12,727.70
12,000.00	127.28	120	127.06	3,273.38	15,273.38

loan program enables students to borrow directly from either a bank, a credit union. a savings and loan association, or other participating lenders to help fund their post-secondary education. For new borrowers who seek loans for periods of enrollment beginning on or after July 1. 1988, the interest rate is 8% and increases to 10% beginning with the fifth year of repayment. For students who currently have 7% or 9% GSLs, the interest rate on additional loans will continue to be 7% or 9%.

Depending on the student's need, undergraduate students may borrow up to \$2,625 during their first and second years, \$4,000 during their third and fourth years, and graduate students up to \$7,500 a year. The aggregate amount that undergraduates may borrow is \$17,250. The total for graduates is \$54,750, including any GSL loans made at the undergraduate level.

Loan repayments begin six to nine

months (depending on the interest of the loan) after the student graduates, leaves school, or drops below half-time status.

(Refer to Eligibility Criteria section to determine eligibility requirements).

PLUS Loans and Supplemental Loans for Students (SLS): PLUS loans are for parent borrowers; SLS's are for students. Both loans provide additional funds for educational expenses and, like Stafford Student Loans, are made by a lender such as a bank, credit union, savings & loan association, and other participating lenders. SLS and PLUS loans are disbursed on or after July 1, 1988 will have a variable interest rate, edjusted each year. The interest rate for 88-89 award year will be determined in June 1988.

PLUS enables parents to borrow up to \$4,000 per year, to a total of \$20,000. for each child who is enrolled at least halftime and is a dependent student.

Under SLS, graduate students and independent undergraduates may borrow up to \$4,000 per year, to a total of \$20,000. This amount is in addition to the GSL, (In exceptional circumstances, the financial aid administrator may authorize dependent undergraduates to apply for an SLS)

PLUS and SLS borrowers do not have to show need, although like all borrowers, they may have to undergo a credit analysis.

SLS and PLUS borrowers must begin repaying interest within 60 days after the loan is disbursed, unless the lender agrees to let the interest accumulate until the deferment ends.

Emergency Loan: This institutional loan program assists students who demonstrate an urgent need for immediate funds. Applicants must be enrolled as fulltime students in the semester for which the request is being made. The amount loaned can be up to \$500 and must be repaid within 90 days.

Applications are available at the Financial Aid Office and loans are approved within 24 hours. Release of funds will occur within five working days of the request.

Short Term Tultion Loan: This is an institutional loan program available to students who are unable to meet the deadline for fee payment.

To be eligible, an applicant must be admitted to a degree program, be enrolled on a full-time basis, and have no outstanding debts to the University. Financial aid recipients are not eligible to receive this loan since their tuition/fees payment can be deferred until their financial aid is disbursed.

Applicants who meet all criteria will be awarded the loan. The amount of award is limited to the student's actual cost of tuition and other required fees. The loan is due 60 days from the first day of classes each semester.(Late registration fees or other penalty charges are excluded from loan.)

Student Employment

The University offers employment opportunities through various sources. In addition to the CWS Program and the CCWEP Program which are based on financial need, other jobs are available on and off-campus and assistance in locating work is provided to any student through the Job Location Development Program.

College Work Study (CWS): This is a federal financial aid program often included in the student's financial aid award. It provides employment opportunities to eligible undergraduate and graduate students. Students awarded CWS funds may work on campus, and an effort is made to assign them to jobs related to their field of study or special interests and skills.

(Refer to Eligibility Criteria section to determine eligibility requirements.)

College Career Work Experience (CCWEP) This state program is available to needy first-time undergraduate students who have been legal residents of Florida for the preceding two years. Students awarded CCWEP funds may work off-campus in career related jobs

Salary rate is determined according to the type of work, the student's experience, and difficulty of the job.

Job Location Development Program (JLD). The Career Planning and Placement Office operates a Job

Location Development Program to help currently enrolled students in locating offcampus part-time employment.

Students seeking work may contact the JLD coordinator in that office for information and assistance.

Other Personnel Services (OPS): Oncampus employment opportunities are also available through the University Personnel Relations Department (Employment Office) or through the various University departments.

Caution: Financial aid recipients should be aware that all eamings from nonfinancial aid employment will be considered as a resource for the following academic year.

Eligibility Criteria

To be eligible to receive Federal assistance, students must:

1. Be enrolled in an eligible program of study

2. Be U.S. citizens; U.S. nationals: or U.S. permanent residents or reside in the United States for other than a temporary purpose (supportive documentation is required to verify residency or citizenship status)

Maintain satisfactory academic progress in their course of study (Refer to Satisfactory Academic Progress section)

4. Not be in default of any loan or owe a repayment on a Pell Grant, SEOG, or state grant.

Demonstrate financial need.

Other Forms of University Assistance

A number of scholarships are made available by the University, private organizations, or individuals for students with academic promise and financial need. Selection of recipients, award amount, and eligibility criteria are determined by the University, or the donor(s), or both.

Application information and doadlines can be obtained through the Financial Aid Office

University-Wide Programs

To be considered for a variety of University scholarships, students are required to file a Need Analysis Form (see Application Procedures for Financial Aid)

Army ROTC Merit Scholarship. Available to full-time freshmen or sophomores who are U.S. citizens. medically qualified, and under 25 years of age on June 30th of graduation year. Applicants must be willing to serve as Army officers on active duty for four years or on Reserve/National Guard duty for eight years after graduation. Age waiver

possible for veterans or current Reservists. Minimum GPA depends on academic major.

Scholarships pay full tuition, flat rate for books and fees, and up to \$1,000 per year subsidence for two or three years depending on number of academic years remaining. No obligation is incurred by applying. Contact the Department of Military Science at 554-2892 or, 284-4673.

Athletic Scholarships: Athletic awards are made upon recommendation of the Athletic Department to students who meet the established qualifications for such awards. These awards are based on athletic and academic ability. Interested students should contact the Athletic Department at (305) 554-2756.

Graduate Assistants Matriculation Fee Walvers: These waivers may be awarded primarily to Graduate Assistants who are to be employed for 0.25 FTE for a minimum of 10 hours per week or for at least one semester during the academic year.

Tultion Walvers: Tuition waivers may be awarded to Non-Florida residents and foreign students to help defray a part or all of the out-of-state portion of their tuition. Awards are made to students who demonstrate high scholastic achievement, or to students who have special skills or talents.

Feculty Scholers Program: Outstanding high school graduates are selected each year for the distinguished Faculty Scholars Program. Scholarship awards are based on academic merit and are renewed each semester contingent upon the student maintaining a minimum 3.3 GPA. Eligibility criteria include a minimum score of 1200 on the SAT or 27 on the ACT and an average 3.5 high school GPA. For further information contact the Office of Undergraduate Studies at 554-2892.

Muelc Scholarships: Scholarships are awarded to talented students through audition and established criteria for such awards. These scholarships are made upon recommendation of the laculty of the Music department. Call 554-2896 for audition dates and further information.

Theatre and Dance Scholarships: Scholarships are awarded to talented students through audition and established criteria for such awards. Those scholarships are made upon recommendation of the faculty of the Theatre and Dance department. Call 554-2895 for audition.

PRIDE Scholarship: This scholarship is available to any of the four finalists of the

Program to Recognize Initiative and Distinction in Education (PRIDE) competition for high school seniors in the state. Free tuition for one year is awarded, renewable for an additional three years or until requirements for a baccalaureate degree are completed, whichever comes first. Students must maintain a 3.0 GPA to renew the scholarship.

Graduate Scholarships and Fellowships: Graduate scholarships and assistantships are provided to applicants who demonstrate qualifications required for admission to graduate programs. This financial aid may be available in accord with various criteria such as: outstanding academic potential and prior achievement, demonstration of financial need, and minority recruitment.

Doctoral fellowships, research assistantships, and teaching assistantships are awarded competitively for doctoral programs in Adult Education, Biology, Business Administration, Community College Teaching, Computer Science, Curriculum and Instruction, Economics, Education, Educational Leadership, Exceptional Student Education, Psychology, and Public Administration. Student aid may be available for other doctoral programs as new programs are established.

Master's degree scholarships, research assistantships, and teaching assistantships are available in numerous programs. Students may also gain partime employment to support studies and living costs. Student financial support is also provided by external agencies. For example, the Florida Endowment Fund provides doctoral fellowships for students who are Black American citizens. For more information, contact the individual academic department.

Brain Bowl Scholarship: Two scholarships in the amount of \$300 per term for two years will be available to members of the state championship team who are accepted for enrollment at the University. The maximum award will be \$1,200 each, over the two year period. Renewal for the second year will be based on satisfactory academic progress.

Golden Drum Scholarshlp: Upon recommendation of the Achievers of Greater Miami, Golden Drum committee, the University will ofter full tuition scholarships to deserving black high school seniors with a GPA of 3.0 or higher.

Special Scholarships

Charles E. Perry Graduate Scholarships: Available to full time graduate students with a 3.5 GPA or higher and financial need.

Chese Federel Savings and Loan Scholarship: Available to undergraduate full-time students with a 3.0 GPA or higher and financial need, who are residents of Dade, Broward, Palm Beach, or Martin counties.

Edna Porter Scholarship: Available to senior students majoring in Apparel Management with a 2.7 GPA or higher.

Pearce Memorial Scholarship: Available to full-time students majoring in plant sciences, with financial need and good scholastic ability. Elders Forum Scholarship: Available to

Fellx Memorial Scholership: Available to undergraduate and graduate Music majors with financial need.

Freshmen students with financial need.

Frank R. MacNelli Memorial Scholarship: Available to U.S. graduate or undergraduate students majoring in Insurance or Marketing with financial need and a 3.0 GPA or higher.

laadore Hecht Scholarship: Available to graduates of Dade or Broward high schools who have completed 27 undergraduate or 10 graduate semester hours towards a degree at the University. The students must be enrolled in the Colleges of Arts and Sciences or Business Administration, or the Schools of Education or Public Affairs and Services.

Judith Seymour Memorlal Scholarship: Available to students enrolled in the College of Arts and Sciences who have completed 30 semester hours at the University and are interested in historic preservation.

Lynne A. Cohen Memorial Scholarahlp: Available to junior or senior, fulltime Physical Therapy majors with 3.0 GPA or higher and financial need.

Mayor Henry Milander Public Service Scholarship: Available to upper level or graduate students majoring in Public Administration or Criminal Justice who have graduated from Hialeah, Miami Lakes or Miami Springs high schools. Must be full-time students, maintain minimum 3.0 GPA and have civic leadership qualities.

Dr. Pablo Rulz-Orozco Scholarship: Available to students seeking graduate degrees in Hispanic Studies who are natives of Ciego de Avila, Cuba, or their descendants. Must have a minimum 3.0 GPA and demonstrate financial need.

Ricardo Nunez Scholarship Fund: Available to full time graduate or undergraduate students with good academic progress and financial need.

Sarsh and Solomon Rosenberg Scholarship: Available to black U.S. citizens (native Americans) undergraduate upper-division students, majoring in Engineering, Computer Sciences, or Business who demonstrate academic ability and have financial need.

Senator Gwen Margolls Scholarship: Available to black students majoring in Communication who demonstrate outstanding academic performance and financial need.

The Two Hundred Society Scholarship: Available to lemale students. Applicants must be U.S. citizens, residents of Dade County, full-time students, demonstrate financial need, have a minimum 3.0 GPA, have upper-division standing with a minimum full year of studies remaining, and enroll in at least one three-credit Women's Studies course.

Other scholarship opportunities are available through individual academic departments. Information about additional externally-funded scholarships is available in the Financial Aid Office.

Application Procedures For Financial Aid

Listed below are all the documents required to apply for financial assistance, as well as procedures for submission of application. The deadline date to receive priority consideration for available funds is April 15 of the year preceding the academic year of enrollment.

Need Analysis Document: Students interested in all forms of aid must complete the Financial Aid Form (FAF) and mail it to College Scholarship Service (CSS) with the appropriate lee. The CSS will perform a need analysis based on the information provided on the FAF and send a copy to the University (Undergraduate Florida residents applying before April 15 should request that a copy of this report be sent to the Florida Department of Education). Students who wish to apply only for the Pell Grant must file a different application called the Application for Federal Student Aid (AFSA) instead of the FAF

Financial Ald Application (FAA) This form must be completed by all students and mailed to the Financial Aid Office at their primary campus.

Student Aid Report (SAR): All first-time undergraduate students are required to apply for the Pell Grant. Eligible students will be mailed a three part SAR by the Pell Grant processor. If the applicants are ineligible or need to make corrections, they will receive a two part SAR. The complete set must be forwarded to the Financial Aid Office, regardless of eligibility.

Financial Aid Transcript (FAT): All new students who have attended another institution of higher education must submit a Financial Aid Transcript for each institution attended, whether or not aid was received.

Income Tax Return: All students must submit an official (signed) copy of their (and spouse) previous year Income Tax Return (1040, 1040A, or 1040EZ) to the Financial Aid Office. Students filing as dependents must also provide an official (signed) copy of their parents' tax return. The applicant's name and social security number should be written at the top of the Parent's Income Tax Form to insure proper student identification. (Students and/or parents who did/will not file must submit an Income Certification Statement for IRS Non-Filers available in the Financial Aid Office).

PLUS and SLS Applicants: A separate application is required in addition to the other documents. The Financial Aid Office will mail all completed loan applications directly to the student. Unless the applicant specifies a particular lender, he/she must make their own contacts with lenders regarding the completed application.

Additional information may be requested by the Financial Aid Office before issuing an award package.

Note: The University will not begin processing financial aid applications until all eligibility criteria are met and application forms are properly completed It is the studont's responsibility to comply with all requirements. All forms and additional information may be obtained from the Financial Aid Office on either campus.

Notification of Award

Once a need assessment has been completed, a notice of award will be mailed to the applicant

It is the student's responsibility to review the award and all lits conditions pnor to accepting the aid offer. The student must then return the signed copy of the award along with all other required documents within 15 days or make an appointment with a linancial aid officer to discuss any concerns he/she may have. If the student fails to do this, the award will be canceled and those funds will be offered to other eligible applicants..

Disbursement of Aid

All financial aid recipients must go to the Cashier's Office to have their class schedule validated prior to the date shown on the Fee Due Notice received during registration. Failure to do this will result in the cancellation of all classes for the semester.

Financial aid checks will generally be available seven to ten days after the last day to add/drop courses each semester.

Tuition, fees, housing fees, and other outstanding debts will be deducted before releasing any funds to the student.

Satisfactory Academic Progress

In keeping with guidelines set by the U.S. Department of Education, the Financial Aid Office must determine if a student is maintaining satisfactory progress for the receipt of Title IV student financial aid (Pell Grant, Supplemental Educational Opportunity Grant, College Work Study, Perkins Loans, Stafford Student Loan/PLUS Loan, SLS Loan, and State Student Incentive Grant programs). This rule applies regardless of the student's previous financial aid history.

The student must show incremental progress in his or her coursework along the continuum of attendance toward degree completion, as well as remain in good academic standing to be eligible for aid.

Students who fail to meet the satisfactory progress criteria will be issued warnings, placed on probation, or have all aid suspended. If a student disagrees with the Financial Aid Office's decision, he or she will have the right to appeal. (The complete Satisfactory Progress Policy statement is available in the Financial Aid Office and one copy is provided to each financial aid applicant along with the notification of their financial aid eligibility.)

Financiai Aid Refunds/Repayments

When a student receiving financial aid withdraws or drops below the required hours for receipt of that aid, the amount of refund due (according to the University Relund Policy) is refunded back into the financial aid programs from which the student received money. In addition, a portion of the financial aid received as cash disbursement for non-instructional costs must be repaid by the student to the University

The complete Refund/Repayment Policy Statement and distribution formulas are available in the Financial Aid Office

Students' Rights and Responsibilities

As a recipient of financial aid, there are certain rights and responsibilities of which students should be aware. By knowing them, they will be in a better position to make decisions which could influence their educational goals and objectives.

Students have the right to know:

- What financial aid programs are available at Flonda International University
- The process and procedures that must be followed in order to be considered for financial aid.
- The criteria used in selection of recipients, and the method used for calculating need
- The various programs in the financial aid award and how the need was determined.
- 5. The refund and payment policy at the University
- How the Financial Aid Office makes its determination on such questions as student progress, the appeal process, and other decisions
- The terms, including repayment, of any loan allocated by the University
- What special facilities and services are available to the handicapped

Students are responsible for:

- The timely and proper completion of all necessary forms by the established deadlines, and the accuracy of any information provided to the University in the financial aid application.
- Promptly providing any additional information requested by the Financial Aid Office
- Keeping the Financial Aid Office informed of any changes in address, name, marital status, financial situation, or any change in their student status
- Reading and understanding all financial aid forms sent to them and/or signed by them and keeping copies of the forms
- 5 Notifying the Financial Aid Office of any scholarship, grant, or other resources made available to them from non-University sources while they are receiving financial aid
- 6. Notifying the Financial Aid Office if they withdraw from the University or change their enrollment status. Some repayment may be expected on a prorated basis. Future aid may be suspended if arrangements for payment are not made with the Financial Aid Office
- Maintaining satisfactory progress in order to be considered for financial aid

8. Visiting the Cashier's Office for an exit interview if they have received a Perkins Loan or Stafford Student Loan and do not plan to return to school the following semester

9. Re-applying for aid each year.

Student Fees and Student Accounts

Fees

Registration and tuition fees are established by the Board of Regents as required by the Florida Legislature. These fees are subject to change without notice. The 1988-89 credit hour fee schedule is as follows:

Credit Hour Fees

	Under- graduate Lower Division	Upper Division	Graduate Thesis & Disser tation
Total In- State Total Out	\$35.28	\$35.97	\$63.26
of-State	\$118.23	\$123.12	\$188.21
Student Athletic			
Fee Health	\$10.00	\$10.00	\$10.00
Fee	\$23.30	\$23.30	\$23.30

The Health and Athletic fees are non-refundable fees assessed each term. The Health fee is not applicable to students enrolled only in off-campus courses or external degree programs.

Audit registration fees are the same as the above fees, except that no assessment will be made for the out-of-state portion.

A schedule of registration and tuition fees for all programs is published prior to each semester and can be obtained at the Office of Registration and Records. Since fees often change in the fall semester the above fees should be used for information purposes only. The semester bullehin will contain the most accurate fee information.

Students are responsible for course information on their fee schedule prior to payment.

Fee Walvers

Students using a fee waiver as part of the fee payment must present the original and the student copy to the Cashier's Office at the time of payment, on or before the last day to pay fees. Students who are responsible for a portion of their fees in addition to the fee waiver will be required to pay their portion before the fee waiver is applied.

University and State employees

using the State employee fee waiver to pay their fees must register only on the day established in the official University calendar for State employee registration. A properly completed and approved waiver form must be presented at the Cashier's Office by the date published for the last day to pay fees. The State employee fee waiver will not be accepted as payment for course registrations prior to the announced date for state employee registration.

Senior citizens fee waivers are available to persons 60 years of age or older who meet the requirements of Florida residency as defined in this catalog. The fee waiver allows qualified individuals to attend credit classes on an audit basis. Senior citizens using the fee waiver must register during the first week of classes

Florida law requires that State employee fee waivers and senior citizen fee waivers be granted on a space available basis only; therefore, individuals using these waivers must comply with the procedures outlined in the schedule of classes for each semester.

Refunds will not be processed for employees who have registered and paid prior to the State Employee Registration Day and wish to use the fee waiver.

Fee Payment

Fees may be paid at the Cashier's Office at University Park, PC 120, or at North Miami AC1 140. Broward students may pay at the Broward Community College Cashier's Office, by mail or at the Cashier's Office at University Park or North Miami, Night drop boxes outside the Cashier's Offices are available for fee payments by check or money order through the last day to pay fees. Payment is also accepted by mail. The University is not responsible for cash left in the night drop or sent through the mail. Failure to pay fees by the established deadlines will cause all courses to be cancelled. See Fee Liability below.

Financial Aid Students

All financial aid recipients must have their class schedule validated at the Cashier's Office prior to the date shown on the Fee Due Notice received during registration. Failure to have the schedule validated will result in the cancellation of all classes for the semester. The validation process cannot be handled through the night drop or by mail, but must be done in person.

Fee Liability

A student is liable for all fees associated with all courses in which he/she is registered at the end of the drop/add penod. The fee payment deadline is published in the official University

calendar. If fees are not paid in full by the published dates, all courses will be cancelled and any money paid will be

Note: Registration is not complete until all fees are paid in full.

Reinstatement of Classes

Requests for reinstatement of registration for classes cancelled for fiscal reasons must be filed with the University prior to the last day of classes of the semester. Reinstatement will be considered for all classes on the class schedule at the end of the drop/add period. Reinstatement cannot be requested selectively for certain classes. The late registration/payment fee is applicable to all reinstatement approvals.

Application Fee

A non-refundable fee of \$15 shall accompany each application for admission to the University.

Vehicle Registration Fee

A non-refundable annual vehicle registration fee is applicable to all persons operating or parking a motor vehicle on campus. Upon payment of the applicable fee and registration of the vehicle at the University Public Safety Department each vehicle will be assigned a parking decal to be placed on the vehicle. The decal is required for all decals operating on campus and parking and traffic regulations are strictly enforced.

Parking Registration Fees:

Student	\$10.00
Replacement or	
Second Vehicle decal	\$1.00
student decals after May 1st	\$5.00
Citation Fines:	
Decal Fraud	\$50.00
Handicap/wheelchair space	\$50 00
Hazardous Parking	\$15.00
Other	\$5.00
Late Charge	\$5.00
Other Fees	

Other Fees	
Late Registration/	
Payment Fee	\$25 00
Jbrary Fines	
Per book per library hour	25
Maximum fine per book	\$5.00
Lost book fine	\$35 00
Intern Certificate of Particip	ation
Per credit hour	\$4 75

Note: These fees are subject to change as permitted by law. Additional fees may be added and special purpose fees may be assessed in some instances.

Checks

The University will accept personal checks for emounts due to the University These checks must be in the exact amount due only. The Cashier's Office will not accept checks above the amount due, third party checks or checks for cash. State law requires that a service fee of \$10 or 5% of the amount of the check (whichever is greater) be assessed on a check returned unpaid by the bank for any reason. Returned checks will be assigned to an agency for collection if not promptly paid. When an account has been assigned the collection agency fee will be added to the University charges for collection at the current contract rate. Returned checks on student accounts will result in cancellation of classes and will require petition for reinstatement.

The Cashier's Office will not accept a check on any student's account which has had two previous dishonored checks of the check.

Refunds

A refund will be made upon written application by the student of all fees. except the health and athletic fees, for all courses dropped during the drop/add period.

Students who have completed registration and have paid all fees due and have completely withdrawn from the University prior to the end of the fourth week of classes are eligible for a refund of 25% of total fees paid (except the health and athletic fees) less the capital improvement and building fees. Refund will be made only upon written application by the student.

In the following exceptional circumstances, a full refund of total fees paid (except the health and athletic fees) less the capital improvement and building fees will be made upon presentation of the proper documentation:

Death of a student - Death certificate required.

Involuntary call to military service copy of orders required.

Processing of refund applications begins after the end of the drop/add period each semester.

Past Due Accounts

Delinquent accounts are sufficient cause to prohibit registration, graduation, release of transcripts, or release of diplomas.

The University is not able to grant credit or time payments for any fees Financial aid is available to those qualifying through the Financial Aid Office A limited number of short term loans are available to full time enrolled students who may experience problems in meeting fee payment due dates

The University reserves the right to assign any past due account to an agency for collection. When an account has been assigned the collection agency

fee will be added to the University charges for collection at the current contract rate.

Deadlines

Students are reminded that deadlines are strictly enforced. The University is not able to grant credit or to extend the fee payment period beyond the time set in its official calendar. The University does not have the authority to waive late fees unless it has been determined that the University is primarily responsible for the delinquency or that extraordinary circumstances warrant such waiver. The University has no authority to extend deadlines for individual students beyond those set by the official calendar.

Academic Affairs

The Office of Academic Affairs plans and administers the instructional programs of the Colleges and Schools of the University. Matters affecting faculty, curriculum and the development of undergraduate and graduate degree programs fall within its purview. This office also supervises academic support programs, such as Continuing Education, the Libraries, Instructional Media Services, Sponsored Research and Training, FAU/FIU Joint Center for Environmental and Urban Problems. Latin American and Caribbean Center. Center for Economic Education, Institute for Judaic Studies, Institute for Public Policy and Citizenship Studies, The Art Museum, Multilingual-Multicultural Studies Center, Southeast Florida Center on Aging, Southeast Multifunction Resource Center, and the Women's Studies Center.

Providing direct service to students outside the classroom, and influencing the instructional programs, the following units also report to the Office of Academic Affairs: the Office of Undergraduate Studies and the Division of Graduate Studies.

Responsible for all the academic units, the chief academic officer is the Vice President for Academic Affairs. The Vice President also serves as liaison to the Florida Board of Regents for academic matters, and as a member of the University Executive Staff, the Vice President leads in the overall planning and direction of the University.

(For detailed information on the International Banking Center, Institute for Public Policy and Citizenship Studies, FAU/FIU Joint Center for Environmental and Urban Problems, Latin American and Caribbean Center, Center on Aging, Center for Economic Research and Education, Institute for Judaic Studies. and Women's Studies Center refer to the Center and Institute Section.)

Policy Statement with Reference to Religious Holy Days

A faculty member who wishes to observe a religious holy day shall make arrangements to have another instructor conduct the class in his or her absence. if possible, or shall reschedule the class.

Because there are some classes and other functions where attendance may be considered essential, the following policy is promutgated:

1. Each student shall, upon notifying his or her instructor, be excused from class to observe a religious holy day of his or her faith.

2. While the student will be held

responsible for the material covered in his or her absence, each student shall be permitted a reasonable amount of time to make up any work missed.

3. No major test, major class event, or major University activity will be scheduled on a major religious holy day.

4. Professors and University administrators shall in no way penalize students arbitrarily who are absent from academic or social activities because of religious observances.

Office of Undergraduate Studies

The Office of Undergraduate Studies is responsible for undergraduate program activities that span more than one academic unit. Included in these activities are the Academic Advising Center, offering advising for freshmen, undecided majors, students changing majors, and non-degree seeking students, and monitoring of Core Curriculum and General Education requirements; the University Learning Center, providing CLAST counseling and academic preparation, national test administration, and assistance in improving reading and writing skills; the Faculty Scholars Honors Program; and ROTC. The office is located in PC 115. University Park, 554-2099; and ACI-180, North Miami Campus, 940-5754.

Office of Graduate Studies

The Office of Graduate Studies is responsible for: (1) the direction and support of all University graduate programs; (2) the development of and compliance with University graduate policy, procedures, and planning; (3) graduate financial aid, acquisition and distribution; (4) University-clientele linkages for development support and productivity; (5) graduate program external advisory councils; (6) graduate program review and accreditation; (7) budgetary and facilities for graduate programs; and (8) planning, development, budgetary support and external resources

The Office is under the direction of the Dean of Graduate Studies.

Applicants and students may gain graduate information by visiting the Office in PC 520, University Park, 554-2455; or Room 216, Building 9, Broward Community College/Central Campus, 776-1240.

Libraries

The University Libraries are housed in the Athenaeum (AT) at University Park, and in a new Library building (LIB) on the North Miami Campus.

The total library collection

comprises 786,824 volumes, in addition to substantial holdings of federal, state. local, and international documents: maps: microforms: music scores: newspapers: institutional archives: and curriculum materials. The Library subscribes to 7,075 scholarly journals and other serials.

A computerized catalog of library holdings provides a listing of materials in both FIU Libraries, and other libraries in the State University System. The bulk of the collection is housed in open stacks.

Classification of library resources is according to the Library of Congress system, except for some of the documents and special collections (e.g., U.S., Florida, and U.N. documents, archives, etc.) which are arranged by their own classification systems and have separate public catalogs.

In keeping with the University's commitment to day and night operation, the libraries are open when the University is in session and during vacation periods. For exact library hours, please consult the posted schedules. Staff members are always available at the Public Service desks to assist students and faculty in their use of the library.

Consortium Library Privileges

Currently registered students, faculty, and staff may use the libraries of any of the other campuses of the State University System. For access to libraries in the southeast Florida region. students, faculty and staff should consult with members of the Library staff.

A state-of-the-art system of interlibrary loan links the libraries with others throughout North America. It includes the use of telefacsimile for time-critical requests.

Instructional Media Services

Instructional Media Services specializes in the development, production, and utilization of various types of audiovisual and communication media for educational purposes. The services offered are encompassed by five departments:

1. Equipment Distribution and Scheduling provides a large variety of educational audiovisual equipment for use by faculty and staff.

2. Graphics Services prepares artwork, graphs, illustrations, charts, and

posters for faculty and staff.

3. Production Resource Center is a "do- it-yourself" media and graphic arts production lab, providing technical assistance to faculty, staff, and students, and instruction in the development and use of communication media and technology.

4. Photography Services provides

still photographic support and services to faculty and staff for educational and University promotional purposes.

5. Instructional Television
Production and Programming produces
instructional media programs (video and
audio recordings, both in-studio and
remote, and multi-media programs) for
faculty and staff.

All of these departments are located on the University Park. North Miami Campus Media Services maintains an Equipment Distribution and Scheduling Department (ACI-193), and Production Resource Center in LIB-150. Services not available on the North Miami Campus can be obtained through the appropriate office on the University Park. For more information contact 554-2812, AT 136, University Park; and 940-5741, ACI-193, North Miami Campus.

Consortium Media Privileges

Faculty, staff, and students can use the audiovisual services on any campus of the Consortium. A-V materials and equipment cannot be borrowed.

Continuing Education

Carolann W. Baldyga, Dean Dorle K. Sedoff, Assistant Dean J. Patrick Wagner, Director, Off-Campus and Weekend Credit Courses

The University extends credit and noncredit learning opportunities through the Division of Continuing Education. Courses of instruction are developed and offered in a variety of formats. These include conferences, seminars, short courses, workshops, lecture series, certificate programs and courses for academic credit. Learning opportunities are made available at locations throughout Dade, Broward and Monroe counties, the University's campuses and abroad through special arrangements. Instruction can be designed to serve specific needs and respond to requests from community groups, professional organizations, businesses and industry The Division's central office is

Campus, 940-5669. Offices and services are also available in PC 113, University Park. 554-2490

Administered through the Office of Academic Affairs, the Division of Continuing Education carries out the following programs: Off-Campus and Weekend Credit Courses and Conferences and Short Courses

Off Campus and Weekend Credit Courses

Over 230 courses for academic credit

are offered off-campus and on weekends each year through the University's eight Colleges and Schools. Any course listed in the University Catalog may be conducted at a suitable location in Dade, Broward or Monroe counties. Courses are regularly conducted at hospitals, banks, community schools, and other public and private facilities appropriate for educational delivery. An individual, business, agency or association can request that a specific course or degree program be offered.

Registration for Continuing Education credit courses may be accomplished at the office of Registration and Records at University Park and North Miami Campus, and the University's Broward Community College, Central Campus office. Students may also register at the first class meeting.

Sponsored Credit Institutes are contract agreements through which an employer, public agency, or professional organization collaborates with the University to provide credit courses and degree programs for its constituents. These educational enhancement benefits are arranged to serve the needs of a designated group of individuals at a location and time convenient to them.

For information on how to request a course or to find out more about educational opportunities available through the Department, call 940-5653 in Dade, and 463-2790 in Broward.

Conferences and Short Courses

Noncredit programs to develop professional competence, increase business skills, and provide personal enrichment are offered through short courses, workshops, seminars, and certificate programs. Local, regional, national and international conferences are coordinated in conjunction with the University's goals and objectives.

Noncredit program information is published each semester by the Division and may be requested at the Division's offices at University Park and North Miami Campus, or by telephone, 940-5669 (Dade and Monroe), 463-2790 (Broward) Registration is initiated by mail, at the above locations, or at the linst session of each program on a space available basis

Certificate Programs

Legal Certificate Program Included are the Legal Assistant, Advanced Legal Assistant Studies, Legal Certification Review, Legal Socretarial Studies, and Law Office Administration. The objective of all programs is to develop

occupational competence through practical and substantive instruction.

The Legal Assistant curriculum consists of core courses which meet in the evenings supplemented by monthly Saturday seminars, and an intensive program which meets only on Saturdays. Practitioners completing a course or seminar may request CLA continuing education units from the National Association of Legal Assistants.

Certificate for Professional Travel Agents: This comprehensive six-month course develops skills required in the transportation industry with emphasis on the travel agency profession. The program offers a combination of academic exercise, practical application, and on-the-job training to develop desired qualifications. Certain phases of the program are highlighted by field trips to provide firsthand knowledge of travel industry suppliers.

Independent Study by Correspondence

The State University System offers a program of over 140 courses with instructors drawn from the University of Florida, Florida State University, and the University of South Florida. The program is administered by the Department of Independent Study by Correspondence, University of Florida, 1938 West University Avenue, Gainesville, Florida 32603, (904) 392-1711.

Video Production Certificate

In conjunction with the School of Journalism and Mass Communication, the Division offers the Certificate in Video Production. Hands-on exercises lead students through all major phases of video production. The program provides preparation for the fields of broadcasting, instructional video, corporate video, and applications in advertising and public relations.

Sponsored Research and Training

Thomas A. Breslin, Vice Provost and Director

Catherine F. Kennedy-Thurman, Associate Director

The Division of Sponsored Research and Training serves the research and training needs of interested faculty by providing timely information on the availability of local, state, and lederal program support. The attraction of these funds to the campus provides an opportunity to botter sorve the needs of the people of Florida through services not regularly funded by the Legislature.

Among the major goals of the Division of Sponsored Research and Training are the following: to help stimulate faculty and staff interest in research and training projects; to assist the faculty and staff in obtaining funds for research and training projects; and to provide technical assistance to faculty and staff who manage contract and grant programs for the University. For more information, contact 554-2494.

The Art Museum

Dahlla Morgan, Director William Humphreys, Coordinator of University Collections

The Art Museum of the University has served the South Florida community for the last seven years exhibiting shows of local and national importance. Exhibitions from outside the University and the area are intended to display the finest available and affordable examples of contemporary and historical art. These shows are obtained from a variety of sources, primarily professional organizations and lending institutions. individual artists, commercial galleries. and other educational institutions.

The types of exhibitions displayed directly benefit not only the University community, but also the public. Attendance records show that approximately 200 people per day visit the facility and come from Dade. Broward, Palm Beach, and Monroe counties, for the most part. The Museum is open six days a week and one evening.

The Art Museum, which occupies a 4.000 square foot area on the University Park, opened with an internationally acclaimed exhibition of Contemporary Latin American Drawings in April, 1977. Since that date many exhibitions have been displayed including: Alberto Giacometti, Draftsman and Sculptor; The Texturology Series of Jean Dubuffet; Public Relations: Photographs by Garry Winogrand; Mira, Mira, Mira, Los Cubanos de Miami; Alfred Stieglitz, 1894-1934; William Wiley: A Collector's Eve: The Olga Hirshhorn Collection; Miriam Shapiro, A Retrospective: 1953-1980: Neil Welliver: Treasures of the Norton Gallery; Manuel Neri, Realist Watercolors; English Naive Painting; Michael Graves Exhibition: Marsden Hartley Exhibition: Anxious Interiors; American Art Today: Still Life: and nationally acclaimed Marcel Duchamp Exhibition.

The Museum has continued to enhance its exhibition program with a lecture series which has included many of the exhibiting artists and scholars. museum curators, and others who have been involved with the particular

exhibition. The highly-acclaimed Critic's Lecture Series, sponsored by the Museum, has included: Germaine Greer, Robert Hughes, John Cage, Tom Wolfe, Carter Ratcliff, Susan Sontag, Linda Nochlin, John Canaday, John Simon, and Michael Graves.

The Museum is operated by the Director, the Coordinator of University Collections, and a staff made up partially of University students working through an internship program.

Student Affairs

The mission of the Division of Student Affairs is to provide programs and services which foster the intellectual, social, emotional, physical and moral development of students. Programs and activities provide opportunities for leadership training, awareness of cultural diversity, and a sensitivity to social issues and concerns. Services support the academic mission of the University in ways that teach students and encourage integration of experiences from the classroom with experiences outside of the classroom.

The Division is comprised of the following departments and programs: Admissions, Career Planning and Placement, Campus Ministry, Counseling, Disabled Student Services, Enrollment Support Services, Financial Aid, Intercollegiate Athletics, International Student Services, Minority Student Programs, Recreational Sports, Registration and Records, Student Activities, Student Union, University Housing, and Student Judicial Affairs

Student Affairs offices are located at University Park on the second and third floors of the University House, in the OE Building, on the first floor of PC, in the Arena and in the Modular Building on the west side of campus. On the North Miami Campus, offices are located in the Student Center Building, the Trade Center, and the third floor of the Library.

Career Planning and Placement

Career Planning and Placement (CP&P) assists students to identify their skills. values and interests and provides them with the necessary tools for on-going self assessment. Emphasis is on career development, employer identification, resume/letter writing and employment interviewing skills. CP&P houses four programs: Career Advisement, Cooperative Education, Career Placement and the Job Location and Development Program.

Career Advisement

Career Advisement assists students with

career choice selections. Students are encouraged to attend the different workshops on career identification and choosing/changing majors, participate in the Alumni Mentor Program and set up appointments to receive individualized attention from a professional staff. Additionally, a computerized career guidance system is available (SIGI PLUS) to help students identify a career. During Spring '89, a peer advisor program will be established and a career course may be offered during Fall '89.

Cooperative Education

Cooperative Education combines classroom theory with career related practical work experience. Students work in professional level training positions related to their major field of study. Work assignments are scheduled on a semester basis, and students earn a salary plus academic credits through participating in the program.

Career Placement

Career Placement provides graduating seniors with assistance in their career search through scheduled on-campus interviews, job vacancy notices, a resume referral system, an annual Law/Medical/Graduate School Day in the Fall, and annual Career Fair in the Spring, and a variety of seminars scheduled each semester on job market trends and job search techniques. Students are required to attend an orientation meeting prior to setting up a placement file, and participating in the on-campus recruiting process. A credential referral service is available primarily for education majors and graduate school applicants.

Job Location and Development Program

Job Location and Development Program is designed to provide part-time, fulltime, and summer employment information to students. This program helps students to secure employment to defray the educational costs and also to develop career experiences.

The Center's offices are located in UH 340, University Park, 554-2423, SC 264. North Miami Campus, 940-5813. and Building 9, Room 224, Broward Center, BCC Campus, 474-1404.

Counseling Services

Counseling Services offers a variety of individual and group services and programs designed to enhance and lacilitate emotional well-being. Personal counseling is provided for problems with anxiety, depression, family or relationship concerns, and leelings of inadequacy, as well as to assist in the

development of coping and interpersonal skills. Career/lifestyle counseling is available to provide assistance with career-life planning, including individual exploration of interests, options, abilities, needs, and goals. In addition, workshops and seminars are offered on topics related to mental health. All services are provided at no extra cost to students.

Complete confidentiality is assured and information will not be released without the student's written permission. Department offices are located in UH 340, University Park, 554-2434; and SC 260, North Miami Campus, 940-5813.

Disabled Student Services

Disabled Student Services provides information and assistance to students having disabilities who are in need of special accommodations. Individual services are available to students with visual, hearing, speech, physical, and learning disabilities; chronic health problems, mental or psychological disorders, and temporary disabilities. Services include counseling. coordinating classroom accommodations, providing special equipment, notetakers, readers, interpreters, adapted testing, special registration, and University and community referrals. Support and assistance in overcoming architectural, academic, attitudinal, and other barners which disabled students may encounter is provided. Students who need special assistance must request the services, identify their disabilities, and provide documentation to verify the disability and need for services. All records are kept secured within the Office of Disabled Student Services

Educational opportunities may be enhanced if students seek assistance. For information or to schedule an appointment, contact the office at 554-3532, UH 340, University Park; 940-5813, SC 261, North Miami Campus, or 948-6793, Building 9, Room 224, Broward Center.

Intercollegiate Athletics

The University is a member of the National Collegiate Athletic Association. The women's program consists of basketball, volleyball, soccer, golf, tennis, and cross country. The men's program includes basketball, soccer, baseball, golf, tennis, and cross country Having competed successfully at the Division II level since 1972, as of September 1987 the University now competes at the Division I - AAA level.

Financial Aid is available in all sports offered by the University and both freshmen and transfer students are recruited for the University's 12 athletic

teams. Team membership is open to all full-time students and shall be decided in a manner which ensures that discrimination does not occur based on race, sex, national origin, marital status, age or handicaps in otherwise qualified students within the rules and regulations of the NCAA. Athletics facilities are excellent. Both the baseball and soccer fields are lighted and have a seating capacity for 1,500 spectators.

FIU students are admitted free of charge to all regular season home events upon presentation of a valid University ID card.

For more information, contact the department at 554-2756.

Sunblazer Arena

The Sunblazer Arena is the seventh major building constructed at University Park and serves as the base for University programs in physical education, athletics, and recreation.

A seating capacity for 3,600, racquetball courts, basketball courts, and auxiliary court area, and meeting rooms make this arena a multi-purpose facility.

The arena is open to students, faculty, staff, and alumni with valid University ID cards. It is available also for rental by both University and community groups.

For additional information on operating hours and fees, contact 554-2900.

Campus Ministry

The Interfaith Campus Ministry serves as a center for student groups involved in a variety of activities. Professional representatives from various faiths are available for personal appointments. In addition, individual denominations sponsor campus-wide programs under the auspices of this unit. Some of these activities include worship, Bible study, study groups, and social gatherings, and cultural outings.

The Offices are located in MO-9, University Park, 554-2215; and SC 265, North Miami Campus, 940-5609 or 940-5610.

International Student Programs and Services

The International Student Office provides assistance for students regarding immigration regulations and procedures as they rolate to visa status. The staff also provides counseling and advisement with academic, personal and financial concerns, and serves as a liaison to academic and administrative departments throughout the University In addition, international and intercultural programs are conducted to

assist students in adapting more effectively to the University community and to living in Miami.

The Öffice plans and implements an Orientation for new international students each semester. An active International Student Club collaborates with the Office in organizing various social activities. The Club's programs enable the students to participate in the international dimension of the University and provides opportunities for involvement in the greater Miami educational community.

Literature on travel and study programs abroad is available for interested students.

The International Student Department is located in UH 340, University Park, 554-2421; and in SC 264, North Miami Campus, 940-5813.

Minority Student Programs/Services

The Office of Minority Programs provides currently enrolled minority students with personal, academic, and cultural support. It also provides precollegiate programs that prepare minority students for lower or upper division matriculation.

Minority Student Services

Academic Development and Retention: These services help currently enrolled students learn and refine the academic skills needed to perform adequately in the college classroom.

Personal Development: Students are encouraged to attend a series of personal growth and development workshops designed to help them achieve their educational goals.

Cultural Awareness: In cooperation with the Student Government Association, this department assists in planning the University's Black History Celebration, and other traditional celebrations.

Social and Recreational: Student groups receive assistance in planning and implementing activities for their physical health, leisure time enjoyment and psychological well-being.

College Preparatory Programs

School-besed: Promising black students from select high schools prepare for college through specially funded partnership programs such as the College Reachout Program and the Partners in Progress Program

Community-based: Programs are

planned with viable civic, religious, business, and government agencies and organizations. They are designed to inform the black community of the educational opportunities and campus resources at FIU.

Summer Transition: This program helps students make the transition from high school, community college, or college preparatory programs, to enrollment at the University. Activities are planned to familianze the student with the university's policies and procedures, academic expectations and course offerings.

The office is located in UH 331, at University Park, 554-2436; and SC 262 at North Miami Campus, 940-5813.

Orientation

Coordinated by the Division of Student Affairs, the Orientation program is designed to assist new students in understanding all aspects of the University environment.

New freshmen, transfer, and graduate students are strongly urged to attend an orientation program before their first term of enrollment. Several orientation sessions are scheduled each Summer Term and at least one session is offered before Spring and Summer Terms. Information about the orientation program and related services is mailed to all newly admitted students.

Recreational Sports

Recreational Sports provides students an opportunity to participate in a variety of intramural sports and recreation activities in order to improve physical fitness, to extend leisure time skills, and to develop a lasting interest in recreational endeavors.

Intramural sports are increasing in number and participation as the recreation program grows. Presently, there are six intramural sports: bowling, basketball, flag football, golf, soccer, softball, co-rec softball, volleyball.

A University Park Fitness Center, equipped with a complete line of Nautilus machines, is located on the west side of campus in the W-9 building. The hours of operation are 7 a.m. - 10 p.m. Monday-Fiday, and 9 a.m. - 6 p.m. on Saturday. A North Miami Campus Fitness Center is located in SC 140. The Centers are available at no cost to enrolled students. However, there is a \$25 semester fee for faculty, staff, and alumni. Locker rooms are also available.

The Aquatic Center on the North Miami Campus is the newest addition to the growing list of recreational facilities at the University. The multipurpose design of the 50 meter x 25 yard pool

and diving well allow for recreational and instructional uses. Open swimming hours are scheduled from Noon-6 p.m. daily during the academic year, and from Noon-8 p.m. during the summer term.

Another popular recreational component is the Racquet Sports Center at University Park. There are 12 lighted tennis courts and eight lighted racquetball courts. Operating hours are 4 p.m. - 10 p.m. Monday - Friday, and 8 a.m. - 6 p.m. Saturday and Sunday.

Events such as powerlifting of competitions, golf, soccer, racquetball and tennis tournaments, deep sea fishing trips, and other recreation interests are featured each semester as one-time activities. The cost, if any, for these events is minimal. Some of these events are co-sponsored with Student Activities as part of the University "Theme Weeks"

Students interested in forming sport clubs can contact the Recreational Sports office for information. Presently, the list of active sports include Bowling, Cheerleading, Cycling, Fitness, Lacrosse, Rowing, Scuba, Shotokan Karate, Tae Kwon Do.

For educational and leisure enhancement, the recreation program presents a variety of topics in a series known as "Working at Wellness". These programs are offered with collaboration of the Wellness Center. There are also non-credit classes in aerobics and tennis for the casual recreation enthusiast.

For more information on Recreational Sports, call 554-2575.

Offices of Admissions, Enrollment Support Services, Financial Ald, and Registration and Records

The Offices of Admissions, Enrollment Support Services, Financial Aid, and Registration and Records function as interrelated units responsible for the orderly and timely admission of students, evaluation of transfer credits. the provision of financial aid to students who can benefit from higher education but cannot do so without some assistance, and the dissemination of information about the academic programs of the University. The student academic record is created, maintained, and preserved in these offices. Transcripts of the academic record are also sent from here. Registration for classes, including the dropping or adding of courses, is a function of Registration and Records, and final grades are distributed by this office. The offices' staff has the responsibility to serve the student, faculty, other administrative offices, and the general

public; to hold safe and preserve the confidentiality of the student's records; and to ensure the integrity of the University's policies and regulations.

Student Government Association

The Student Government Association encompasses at the university level what our nation fosters at large; a spirit of democracy based on equal representation for all. Twice a year, students elect senators from their school/college to represent their interests. Bills, appropriations and resolutions are passed to provide support for, give monies to, or take action on certain issues. SGA members also serve on various university-wide committees and task forces to ensure student representation at the administrative level. SGA appropriates \$1.5 million yearly in the form of a budget which itemizes the most productive way to spend student dollars. Four of the most important SGA committees are: Social and cultural, which coordinates all concerts, lectures, films and other cultural and social activities; the Academic Committee which recognizes excellence through awards and scholarships; the Inter-Organizational Committee which reviews applications from student organizations and recommends their approval and funding to the senate; the Media and Services committee which oversees the operation of the yearbook, literary magazine, and radio station. All of the committees are 100% student-run and depend on the input and support of all students. Students who wish to express their concerns, to participate in any of the events or join any committee should go the SGA office. The offices are located in UH 3II at University Park, SC 259 on the North Miami Campus and WH 224 at the Broward Center.

Student Health Services

The Student Health Service provides resources to assist students achieve and maintain a positive state of health. A physician, nurse practitioners and registered nurses are available to provide health education and preventive medicine, as well as diagnosis and treatment of illnesses. Services include medical and nursing care, pap smears, family planning, first aid, medication and laboratory services. There is no charge to the student for any service provided at the clinic. Students must present a valid University ID card for an appoint-ment or drop-in visit. The Health Service also offers optional hospitalization coverage at a low group rate.

For further information, contact the Health Clinic at 554-2401, OE 115, University Park, or 940-5620, Trade Center 110, North Miami Campus.

Student Activities

Programs administered through Student Activities and the Student Government offices are designed to meet the varied needs and interests of students. Student programs are co-curricular and extend the educational spectrum from the classroom into the work of student organizations, Student Government, student program boards, events, and activities throughout the year. Participation in student activities allows students the broadest possible scope of education and on-the-job training during their time at the University. Some of the program committees are: Hispanic Heritage Celebration, Homecoming, Black History Celebration, International Festival, Jewish Awareness Celebration. concerts, lectures, movies, dances, SeaEscape, elections, and orientation.

The University currently has over 85 registered student organizations established to enrich campus life and to contribute to the social, cultural, and academic growth of students. Students have the opportunities to organize groups that further social and service programs to promote the University's educational mission. Students interested in organizing a group or in joining one already formed should visit the Student Activities office in UH 211 at University Park, or in SC 260 at the North Miami Campus.

Operating as a resource for commuter students is another responsibility of the Student Activities Office. The Commuter Student Program collaborates with academic, administrative, and student affairs units to provide resources, services, interagency and community referrals. Some of the services provided are serving as a liaison between commuter students searching for housing and community members seeking renters. Various informational materials are published which contribute to an awareness of rental practices, landlord/tenant regulations and campus services and resources for commuter students.

Meetings for all student groups are posted on bulletin boards throughout the University and are announced daily on the University Park Eventline, 554-2177, or on North Miami's KNET, 940-5807.

Student Judicial Affairs

The University exists as a free marketplace of ideas, lostering the intellectual interchange of knowledge, ideas, and philosophies. Freedom of expression, including the freedom to

teach and learn within an academically stimulating environment, is a right preserved for all members of the University community, In view of this, the University has developed policies and procedures regarding the rights and responsibilities of students, and a code of conduct assuring that these rights can be freely exercised without interference or infringement by others. A "Rights and Responsibilities of Students' booklet is available for the University community and may be obtained from the Office of Student Judicial Affairs in UH 331. University Park, 554-2436; and in SC 265, North Miami Campus, 940-5817.

Students are subject to Federal and State laws, local ordinances, and regulations of the University and the Florida Board of Regents. A breach or violation of any of these laws or regulations may result in judicial or disciplinary action.

When a student is involved in an offense resulting in criminal charges prior to admission to the University, the circumstances of the case may be reviewed by the appropriate Student Affairs Committee to consider the student eligibility for admission as well as participation in extracurricular activities.

On academic matters, students should first discuss their complaints with the departmental chairperson. Problems regarding general University (non-academic) matters should be directed to the Student Judicial Affairs Office. Students should consult with this office lor all disciplinary clearances and details on University grievance procedures.

The University House - Student Union

The Student Union (University House) provides direct services outside the classroom to students and to the University community University House's facilities, services, and programs are responsive to student developmental needs and to the social, physical, recreational, and continuing education needs of the University community. Its purpose is to develop persons as well as intellects, and thus. serve as a unifying force in the life of students at the University It encourages University-directed and self-directed activities which serve as a laboratory where students can learn and practice leadership, management, team building, effective communication skills, goal setting, decision making, program planning and evaluation, and opportunities for self-realization and personal growth

The facilities and services available to the University community are bookstore, cafeteria, rathskeller,

T.V. lounge, ballrooms, conference rooms, meeting rooms, a Presidential Suite, a guestroom with overnight accommodations, BASS ticket outlet, Information Center, movie theater, recreation room (gameroom), an open performing area (UH Forum), offices for student organizations and student government, student radio station. graphics department, student activities offices, student union offices, and administrative offices for the Division of Student Affairs (International Student Services, Career Resources and Placement, Counseling, Minority Affairs, Disabled Student Services, and Alcohol and Drug Center).

The University House staff facilitates events held in the building and assists with the production of universitywide events. During the academic year, it hosts diverse programs of special events such as, madrigal dinners. recitals International Festival, Hispanic Heritage, Black History, Homecoming, Thanksgiving luncheons, welcome back dances, etc. Prominent speakers such as Henry Kissinger, Alexander Haig, Madame Sadat, Ted Koppel, Beverly Sills, Kurt Vonnegut, Michael Manley, Congressman William H. Gray, William F. Buckley, Jr., have been hosted at the building. In addition, the staff oversees the production of concerts, film series. Greek Week, faculty receptions, and many special events.

The Student Union Office is located in UH 212D, 554-2297.

University Housing

On-campus apartment style housing is available for single and married undergraduate and graduate students at both the North Miami Campus and the University Park Services and programs offered in the housing complexes are designed to be responsive to student needs and to support the educational goals of the University

The residential environment provides an opportunity to meet and to interact with others in ways that encourage intellectual, social, and personal growth, as well as an awareness of the rich cultural diversity within the University Students residing on campus have ready access to academic and recreational lacilities, including libraries, the student centers, the Sunblazer Arena at University Park, and the Aquatic Center at North Miami Campus

Regularly scheduled bus service between campuses enables students to attend classes and reside on either campus

For those who prefer not to cook, a meal plan may be purchased through the Student Center cafetena at North Miami Campus or the University House cafeteria at University Park.

All housing is assigned on the basis of space available and without regard to race, ethnic origin, or religious preference. Modified space is available for students with physical disabilities. Contracts are issued for the traditional academic year with summer housing available on request.

For further information and rates, write the University Housing Office, University Park, 10750 S.W. 12th Street, Miami, Florida 33199, or telephone (305) 554-0071.

Wellness Programs

Wellness programs and services are provided through the coordinated efforts of several areas including Counseling Services, Disabled Student Services, Student Health Services, Interfaith Campus Ministry, and Recreational Sports. The fundamental concept of the Wellness Programs is to assist students in the development of healthy lifestyles. This is achieved through an integrated offering of programs and services that attempt to enhance the psychological, physical and spiritual well-being of students. For example, a series of wellness related seminars is presented each semester by the above departments.

For additional information, contact department staff in UH 340, University Park, 554-2434; or in SC 260, North Miami Campus, 940-5813.

Business and Finance

The Division of Business and Finance comprises the offices of Information Resource Management, Budget Planning, Institutional Research, Personnel, Equal Opportunity Programs, Public Safety, Physical Plant and Planning, Controller, Purchasing, Environmental & Safety and Legal Affairs.

Information Resource Management (IRM)

All computer/communications activities on FIU campuses are now under the direction of a new Associate Vice-President for Information Resource Management (IRM). The two groups that formerly provided academic and administrative computing support [FIU Academic Computer Services (ACS) and FIU Computer Systems and Services (CSS)] have been merged into one IRM support group called FIU University Computer Services (UCS). The formerly independent Southeast Regional Data Center (SERDAC), which provides computer hardware/timesharing services

to the University, is now also coordinated by IRM. There is also a completely new IRM Telecommunications Group to oversee both voice and data communications.

University Computer Services (UCS)

University Computer Services (UCS) provides instructional and research computing support to the faculty and students of all FIU academic departments on the University Park. North Miami, and Broward campuses. Computer hardware accessible to students includes a DEC VAX 8800 superminicomputer running VMS, a SUN 4/280 minicomputer running UNIX, and numerous IBM-compatible and Apple microcomputers. Services of most interest to students include: introductory seminars and workshops on the most widely used equipment and software; comprehensive documentation libraries: numerous phone lines and several public terminal labs for dial-up and direct VAX/SUN access; an open microcomputer lab; a discount microcomputer store; assistance with micro-to-larger system data communications; and peer and professional consultation on various other computer-related problems, within the limits defined by the academic departments.

In addition to instructional computing support, UCS, through its Applications Software and User Services Groups, provides support for the administrative functions of the University, including Admissions, Registration, and Financial Aid.

Lab Use

Students are required to have a valid FIU picture ID card in order to use UCS terminal and micro labs. Occasionally, during the peak periods before midterm and final exams, lab hours are extended to meet increased demand. Nevertheless, users are advised to complete assignments early; time limits may be imposed during periods of high demand. Ethical computing practices are stressed. The University Park student lab facility is located in PC-411, PC-413, PC-414, PC-415, PC-416 and PC-419. For a recorded message with current University Park student lab hours, call 554-2174. Direct other inquiries to the staff offices in PC-413A. 554-2568. The North Miami Campus combined micro and terminal lab is located in ACI 293. Call 940-5589 for information concerning the North Miami facility.

Part-time Student Employment Each semester, University Computer Services employs over 35 part-time, student user consultants. Although primarily responsible for maintaining a good working environment and flow of users through lab facilities, these consultants also diagnose and resolve system and equipment malfunctions, and train other students to use the tools and computing resources available in the labs. Given the many different disciplines of the lab users, exposure to a large variety of hardware and software, and direct training by UCS professional staff, working as a user consultant for several semesters provides an excellent career experience and reference. Students with better than average interpersonal and computer skills are invited to apply.

Southeast Regional Data Center (SERDAC)

The State University System's Southeast Regional Data Center provides primary academic computing services to Florida International University and Florida Atlantic University, via an Ethernet network which connects student and faculty workstations to the Data Center's Unix/SUN and VMS/DEC VAX cluster services.

SERDAC also provides FIRNCOM electronic mail and bulletin board services to the State Department of Education's Florida Information Resource Network (FIRN), which connects virtually all public educational entities in Florida. Information on these services may be obtained by calling 554-2695.

SERDAC's word processing facility offers a multitude of services, from the high volume generation of personalized letters and envelopes, to the electronic transmission of manuscripts to selected publishers. For information concerning this facility, please call 554-3069.

Primary operations and dispatch services for faculty, student, and administrative printout are located in University Park, PC-436. Please call 554-2109 for information concerning this facility.

Telecommunications

This organization is responsible for providing voice and data communications services to the University community. Faculty and staff are the primary users of the University telephone system, and they share with students several intercampus data communications networks. These provide users access to all University computing resources, and gateways to state wide, national, and international data networks.

FIU Telephone Operators are on

duty seven days a week. They are responsible for servicing incoming information calls for the University Park (554-2000) and North Miami Campuses (940-5595). They may also be reached (dial 0) in case of on-campus emergencies, since they canotify the proper authorities. However, in an emergency, direct contact should be made with Public Safety, ext. 2911 University Park and ext. 5911 North Miami.

Office of Equal Opportunity Programs

The office provides leadership and direction in the administration of the University equalization programs for women and minorities in several ways. It assists University units in implementing and monitoring affirmative action procedures; provides a channel for employee and student grievances regarding discrimination, or issues indicating a need for additional affirmative action; administers implementation of the Policy to Prohibit Sexual Harassment; and promotes effective relationships between the University and community organizations. The Office also administers the State University System Scholarship Program. In addition, the Office maintains a liaison relationship with State and Federal agencies dealing with EEO and affirmative action. The Office is located on the University Park in PC 215.

Florida Educational Equity Act

The Florida Educational Equity Act was passed by the State Legislature in 1984. and prohibits discrimination on the basis of race, sex, national origin, marital status, or handicap against a student or employee in the State System of Public Education. Procedures for implementing the Act have been developed, and the University prepares an annual report to ensure compliance with the Act The Director of the Office of Equal Opportunity Programs is the University's Coordinator of Institutional Compliance with the Educational Equity Act. A copy of the Education Equity Act Plan is evailable for review in the Office of Equal Opportunity Programs. This Office has the responsibility for implementing a comprehensive grievance/complaint procedure for students, applicants, and staff who believe they have been treated inequitably based on race, sex, national origin, marital status, or handicap, Such grievences/complaints should be lodged with this Office in PC 215, University Park.

AIDS Policy

Students and employees of the University who may become infected with the AIDS virus will not be excluded from enrollment or employment or restricted in their access to University services or facilities unless individual medically-based judgments establish that exclusion or restriction is necessary to the welfare of the individual or of other members of the University community. The University has established an AIDS Committee which includes representation from major University divisions and other University staff as appropriate. The Committee, which will meet regularly, is responsible for monitoring developments with regard to AIDS, acting upon and administering the University's Policy on AIDS in specific cases, and coordinating the University's efforts in educating the University community on the nature of the disease. In addition, the Committee will meet as needed to consider individual occurrences of the disease which require University action.

Persons who know or suspect they are sero-positive are expected to seek expert medical advice and are obligated, ethically and legally, to conduct themselves responsibly for the protection of others.

The University has designated AIDS counselors who are available to provide further information on this subject. Contact one of the following offices at University Part: Director, Office of Equal Opportunity Programs, PC 215; Counseling Services, UH 340; and Student Health Services, OE 115; and on North Miami Campus, Counseling Services, SC 261, or Student Health Clinic, TC 110.

internal Management Auditing

The basic function of the Internal Management Auditing department is to assist all levels of management in carrying out their responsibilities by furnishing them with independent appraisals, recommendations and pertinent comments concerning the activities reviewed.

Auxiliary Services

Auxiliary Services supervises the bookstore and food service operations at both the University Park and the North Miami Campuses, including the Caleteria, Rathskeller and all vending operations.

Auxiliary Services also supervises the Duplicating Services which includes a Print Shop, Convenience Copiers and a Total Copy Reproduction Center

University Budget Planning Office

The University Budget Planning Office, while a small office in terms of the

number of staff, is substantial in terms of impact and responsibilities. The office is staffed by a director, an administrative secretary, and three professional staff. University-wide, the office develops and coordinates all operating and biennial budgets in all budget entities, including the five year plan, legislative budget request, operating budget request, and internal operating budget plan.

Environmental Health and Safety

The Environmental Health and Satety Department is responsible for compliance with all federal, state, and local environmental, safety, fire, and radiation control regulations. With the exception of employee health and life insurance, the office also handles all university insurance. This department coordinates with the other university department to control all losses.

Office of Legal Affairs

Legal services are provided to the university under a contract with the law firm of Valdea-Faule, Cobb, and Petrey. The firm's corp of attorneys provides the university with an array of legal specialties and skills not generally possessed by in-house counsel. The broad range of legal matters handled for the university include constitutional issues, contract review and negotiations, tax questions, immigration cases, and labor and employment problems.

Office of Personnel Relations

The Office of Porsonnel Relations is composed of a staff of sixteen professional and clerical employees, harmoniously working to provide a comprehensive porsonnel system for university employees. The department offers services in five separate areas: Employment and Recruitment, Employee Classification and Pay, Employee Benefits, Employee Personnel Records, and Employee Training and Dovelopment.

Office of University Physical Planning

The Physical Planning department is responsible for the direction of university long-range capital programming, facilities, and campus planning. These activities include capital budgeting, building programs, design coordination, construction management, and furnishing and occupancy coordination. The department is also responsible for coordinating the handicap accessibility standards with the Environmental Health and Safety Office.

Department of Public Safety

The Department of Public Safety exists to ensure that the academic functions of the University can be carried out in a safe and law-abiding atmosphere. University officers have full authority for law enforcement as a police unit of the State of Florida. University police enforce state and local laws and University regulations. Public Safety staff also enforce University parking regulations and provide round-the-clock protection of University property and personnel.

Office of Purchasing Services

Purchasing Services is responsible for a number of functions in addition to the primary function of centralized university purchasing. These other functions include Central Stores, Central Receiving, Property Control, Surplus Property, and Campus Mail. This same organization structure has been in operation since the university opened in 1972. Most key positions are filled with personnel with over 10 years of service in their units. The stability of personnel as well as the high level of cooperation between the related units of purchasing help to better serve the university.

Physical Plant

The Physical Plant Department at University Park and North Miami Campus is responsible for the operation, maintenance, and repair of all university buildings, utilities systems, grounds, roads, and parking lots. In addition, the Architects and Engineers section of the department provides consultive, design and construction contract administration services for construction, alteration and renovation projects up to the \$100,000 level. The university's well known energy conservation strategy and work effort was conceived, reviewed, modified, and executed within the Physical Plant department.

University Relations & Development

The Division of University Relations and Development is responsible for the operation of all University programs relating to external relations and institutional advancement. Division activities are centered in three departments:

Development

The Office of Development provides resources and staff support to identify, evaluate, cultivate, and implement programs to advance the University's development goals through contributions from private sources. Fund raising programs currently in operation include:

The Cornerstone Campaign, the Fund for FIU, and various endowment and special building fund projects. The Vice President for University Relations and Development serves as the institutional liaison to the Board of Trustees of the FIU Foundation, Inc.

Alumni Affairs

The Office of Alumni Affairs seeks to maintain contact and encourage participation in the university events with the more than 40,000 FIU alumni of record. Alumni participation is stimulated through activities by the FIU Alumni Association and through alumni programs sponsored this office including: publications, alumni social events, career development programs, speakers and workshops.

University Relations

University relations is comprised of three offices providing professional staff and resources to support university advancement activity.

The Office of Community
Relations seeks to strengthen university
and community ties, to encourage the
creation of partnerships between the
university and local business,
educational and civic groups, and to
coordinate community events held on
the university campuses. This office
manages also university events such as
commencement, convocation,
Presidential lectures and receptions,
and hosts special campus visitors.

The Office of Publications is charged with the responsibility of producing effective, attractive, and informative publications which are consistent with the University's mission and goals and are in conformance with the requirements of the State University System. Publication staff provide editorial, graphic, design, typesetting, and production assistance for all university publications. This office produces regular university publications, including: INSIDE, INSIDE Extra, the FIU Calendar, the Cornerstone newsletter, and descriptive materials on academic programs and recruitment. Staff can also provide assistance on marketing, advertising, posters, catalogs, and specialized publications.

The Office of Media Relations is the university's primary linkage with representatives of the print and broadcast media. News releases on university programs and on faculty, administrators and students are issued from this office. Public information and events is released through this office. This office also provides ascistance in promoting university events and activities in the media.

Centers and Institutes

Center for Accounting, Auditing, and Tax Studies

The Center for Accounting, Auditing, and Tax Studies (CAATS) sponsors innovative research. It builds bridges to professionals in practice by turning ideas into reality; it seeks to enhance the value of accountants' services to clients and to the public, to contribute to audit efficiency and effectiveness, and to maintain a north-south accounting dialogue.

The Center conducts also seminars and short courses designed to provide non-credit educational opportunities to South Florida public accountants, internal auditors, and management accountants.

CAATS strives to be selfsupporting. Net fees earned by providing educational opportunities to accountants, and contributions received from the public, are applied to research, and to the enrichment of graduate instruction. In this way, CAATS provides the margin of excellence which enhances the entire educational experience.

All CAATS activity is dedicated to advancing accounting, auditing, and tax knowledge. The center is located in DM 397. University Park, 554-2581.

Center for Banking and Finance

The Center for Banking Research, originally established as the International Banking Center in July 1978, became a center for research focus and excellence within the Department of Finance, College of Business Administration, in January 1987. The Center's faculty and staff work closely with members of the financial community representing all facets of banking and related areas. The primary emphasis of the Center is on research related activities. This emphasis includes publication of The Review of Research in Banking and Finance, sponsorship of topical research workshops for the banking community, and support of faculty research projects identified by a committee of bank executives as being of major interest to the financial community of Southeast Florida,

The Center's activities include conferences, training programs, and a Distinguished Lecture Series on Banking. The Center co-sponsors with the Department of Finance and a Certificate in International Bank Management Program. Each certificate program consists of four undergraduate graduate finance courses repre-

senting approximately 150 contact hours between instructors and participants. Upon successful completion of the program, a certificate signed by the Dean of the College of Business Administration is awarded.

The Center is located in W4-202, University Park, 554-2771.

Center for Educational Development

The Center for Educational Development (CED) is a multidisciplinary unit based in the College of Education whose mission includes: (1) planning, technical assistance, training and research in support of educational systems development internationally and domestically; (2) increased minority group access to and achievement in educational systems; (3) acquisition of state and external resources for development of educational systems; and (4) multi-institutional collaboration in educational development projects and research.

The Center is governed and supported jointly by Florida International University, Miami Dade Community College, and the University of Miami It is comprised of two specialized institutes: the International Institute of Educational Development and the Urban Educational Development Institute.

For more information call 940-5820, or write to the Executive Director, Center for Educational Development, College of Education, North Miami Campus, Miami, Florida 33181.

Center for Economic Research and Education

The Center for Economic Research and Education's purpose is to foster a greater understanding of economics. The Center represents an important link between the University, business, and education communities. As a part of its activities, the Center sponsors conferences and seminars, provides courses in economic education for teachers, and disseminates economic data and information. The Center also provides community education in the areas of international trade and commerce, and the South Florida economy.

Established in 1982 as one of eight centers located throughout the State University System, the Center is located in DM 342A, University Park, 554-2316.

Center for Labor Research and Studies

The Center for Labor Research and Studies (CLR&S) was established in 1971 to promote research, curriculum

development and community service in labor relations at the University. Accredited through the University and College Labor Education Association (UCLEA), the Center is one of 51 accredited labor centers in the United States. Its broad mission is to provide "services to workers and their organizations". This broad mission translates into three specific objectives: 1) to provide comprehensive, statewide labor education service; 2) provide internal and applied research programs designed to support faculty research in labor relations, the changing nature of work, and labor education issues; and 3) develop a multidisciplinary credit and non-credit curriculum in labor studies at the University.

As a Type I Center of the Florida State University System, the CLR&S has major responsibility at the University for research on labor relations and the changing nature of work in Florida as well as curriculum development and community service. This responsibility can be met, in part, by following the University's mandate as described in its mission statement: "(to) serve the broad community with special concern for greater Miami and South Florida, enhancing the metropolitan area's capacity to meet its cultural, economic, social and urban challenges."

Since it was founded, the CLR&S has become known nationally for its innovative, statewide, non-credit training programs. These educational activities, which serve over 2,000 students a year, have helped to educate labor and management participants not only in labor relations but have introduced innovations in pension fund administration, dynamics of privatization, and international labor perspectives to local and national audiences.

The Center houses several projects which serve to carry out its research and training functions. Among them are the Hispanic Workers Project, the Contemporary Labor Issues Conference Senes, the Labor and Community Program, and the Applied Research Program. Faculty research is distributed through its various publication series

A credit certificate in Labor Studies is offered as well as conferences, workshops, and consultation and research services. The Center is located in TR-2, University Park, 554-2371

Center for Management Development

The Center for Management Development, located in the office of the Dean, College of Business Administration, was created by the Board of Regents in 1980.

Contract Training

Management training and executive development programs are provided in the community and at the North Miami Campus. Programs are created to meet the unique training needs of each client. Faculty/trainers use highly interactive, practical, and industry-specific activities aimed toward developing job-related competencies. Certificates, Continuing Education Units (C.E.U.'s), and Nurses Contact Hours may be earned.

Microcomputer Workshops

Located in North Miami Campus, this lab is equipped with IBM personal computers. The programs offered include:

Introduction to Microcomputers Spreadsheets Word Processing Business and Accounting Applications Data Base Management

Technical Assistance and Consultation

The Center is a clearing house for matching a variety of faculty resources to complex and specialized needs of the community. It draws on a variety of disciplines in the College of Business Administration to serve the private and public sectors.

The Center is located in ACII 310, North Miami Campus, 940-5825.

Consumer Affairs Institute

The Institute functions in a research, teaching, and service capacity Its pmmary goal is to develop alternatives to the adversary/advocate system in an equitable solution of consumer affairs problems. Working on the peer level, it attempts to bring together representatives of consumers, business, government, labor, and academia. The Institutu is located in ACI-100, North Miami Campus, 940-5867.

Drinking Water Research Center

The only tacility of its kind in the State of Florida, the Drinking Water Research Center (DWRC) was created by the Florida State Legislature in 1977. The Center is primarily devoted to conducting scientific research and developing essential technologies that can be used to provide quality drinking water fer Florida, the U.S. and our global neighbors. The Center receives financial support from the State of Florida and from research grants. The Center does

not perform routine tests of water lor individuals. Administratively the Center is a part of the College of Engineering and Design.

Through programs of research, education, community service, and public information, the Center provides a comprehensive approach toward solving the dilemmas involving the world's largest and most essential natural resource: water. Although enormous quantities of water exist, the proper amount of good quality water is not to be found in the right places at all times. Without an adequate supply and quality of water, a society's physical and economic health will surely suffer.

The Center staff does not conduct academic classes. However, qualified students often have an opportunity to work as research assistants in the Center's laboratories or carry out independent research projects. Cooperation and interchange with other departments in the University are maintained. The Center is located in VH 326. University Park, 554-2826.

Elder's Institute

The Elder's Institute, a continuing education unit within the Southeast Florida Center on Aging, serves the educational needs of the senior adults on the University's North Miami Campus. The Institute's mission and scope is to initiate, plan, design, and manage noncredit short courses, lectures, seminars, and workshops for the retired older learner. Programs are offered during daytime hours, on campus, where participants may use the full range of University facilities. The courses offered are primarily in the humanities, the behavioral sciences and the social sciences. Workshops and seminars provide opportunities to develop new skills and to explore methods and means for personal growth and self-improvement. The Institute's instructional staff are community experts, University faculty and retired seniors. The participants are motivated learners who seek knowledge. new information and skills for intellectual stimulation and personal growth. Additional benefits are increased social opportunities which can lead to new friendships and meaningful relationships. The Institute also serves as a resource for community agencies and prolessionals in the field of gerontology. The Institute is located in TC 320, North Miami Campus, 940-5910.

FAU-FIU Joint Center for Environmental and Urban Problems

The establishment in July 1972 of the Joint Center for Environmental and Urban Problems by Florida International University and Florida Atlantic University was based on the premise that many of Florida's environmental and urban problems are interrelated growth management problems. The headquarters of the Joint Center are located on the Broward campus of FAU at the University Tower in Fort Lauderdale with branch offices on FIU's North Miami Campus and FAU's Boca Raton campus.

An associate director, research associate, and secretary staff the FIU office. Part-time research associates and assistants supplement the full-time staff, as do University faculty members on individual research projects.

The Joint Center functions as an applied research and public service facility that carries out programs supportive of local, regional and state agencies, private institutions, and individuals. The Center achieves its purposes through activities in the following program areas: (1) in-house research with application to state, regional, and local governments; (2) research projects, supported by grants and contracts with public and private agencies, that address environmental and urban problems; (3) applied research grants awarded to faculty at the two universities; (4) publication of the Joint Center's quarterly journal, Environmental and Urban Issues, and other publications; (5) production, in conjunction with FIU's Media Services, ol television documentaries and public service messages concerning selected urban and environmental topics; and (6) workshops, assemblies, conferences and lectures

Research

Recent in-house research projects have included: an evaluation of an alternative conflict management methods for complex environmental and development disputes in Florida, and an assessment of how three of Florida's Resource Planning and Management Committees managed conflicts. Joint Center research supported largely by grants and contracts has dealt with topics such as the socioeconomic impacts of federal, state, and local correctional facilities on local communities, and the effectiveness of government incentives for low and moderate income housing.

Applied research grants recently awarded to faculty members at the two universities have supported an assessment of an alternative sample survey technique for use in public opinion polling about local issues, an analysis of the special needs of South Florida's elderly population during hurricane evacuation, and a study of air quality protection.

Service

In cooperation with local, regional and state agencies, and with private organizations, the Joint Center has organized, directed, and staffed conferences for public officials and community leaders on issues of agricultural land retention, protection of drinking water supplies, and growth management. In conjunction with FIU's Media Services, television documentaries concerning coastal management issues, agricultural land retention and the lives of two nationally prominent environmental leaders in Florida have been produced and distributed for public education purposes. The FIU office is located in AC-II 135. North Miami Campus, 940-5844.

English Language institute

Since 1978, the English Language Institute (ELI) has offered non-credit English language instruction to non-native speakers of English in the community and from abroad.

Classes in reading, grammar, writing, and conversation are taught at five levels of proficiency. Language laboratory facilities are available in which students can increase their listening comprehension and speaking skills under the guidance of an instructor. Students normally take a full, four-course load, but it is also possible for fully admitted University students to take a course in a single skill.

Testing and Placement

The English Language Institute offers proficiency testing of both written and oral proficiency in English as a support service for academic units throughout the University. Evaluative procedures are designed to fit the needs of individual programs or schools, to assist them in the identification of individual students' level of proficiency in English, and to place students in appropriate programs of study when needed. In addition, the Testing and Placement Center regularly administers the Test of English as a Foreign Language (TOEFL) and the Test of Spoken English (TSE) for members of the University and Dade County school communities. Finally, the Center provides certification in oral English proficiency through the FIU Oral English Proficiency Exams in cooperation with English language agencies abroad

ESL Evening and Saturday Program

The English Language Institute offers non-credit courses in the evening

and on Saturday for non-native speakers of English.

Accent Reduction

Accent reduction classes are available for non-native speakers of English who a have a good command of the language but who wish to improve their pronunciation.

The English Language Institute is located in PC 245C, University Park, 554-2222.

International Institute for Creative Communication

The International Institute for Creative Communication is a State University System consortive fellowship which initiates and administers grants. programs, and projects in the arts, humanities, and information technology. Hosted by Florida International University, the Institute also works cooperatively with the Bureau of Cultural Affairs and the State Arts Council. Currently the Institute operates a microcomputer network linking professors in the arts and humanities at each of the nine state university campuses. The ultimate goal of the Institute is to establish an expanded interactive communication network devoted to teaching, training, and nurturing creative activities in the arts and humanities. For more information, call 940-5920.

International Institute for Housing and Building

The International Institute for Housing and Building is established by the College of Engineering and Design, to provide expertise in the design, engineering, architectural, and management aspects of construction. The Institute provides academic research, and service programs to Southeast Florida, Latin America, the Caribbean, and developing nations throughout the world.

The Institute emphasizes the following activities related to housing environment.

1. To initiate and carry out research on problems related to building planning and construction, considering especially the technology, economic, financial, and managenal aspects of the topic.

To generate funds from outside sources to finance theoretical and applied research activities

To disseminate the results of research projects and encourage their implementation.

To provide technical services to private and official organizations with a

special emphasis on service to the housing production industries of South Florida and in international context.

5. To act as an interface between new developments in Housing Science and their application in the field of housing and planning in South Florida and to assess their relevance to the housing industry.

6. To collect documents and disseminate information on the latest advances in building science and

housing.

7. To attract researchers of the international stature and reputation to the University and South Florida.

To develop a learning environment in the area of building sciences relevant to the needs of lowand medium-income people of the world.

 To collaborate with other research institutes, government agencies, and universities to increase the effect of its research program.

10. To organize scientific meetings, symposia conferences, seminars, and workshops at the University and elsewhere.

11. To incorporate the use of alternative energy, energy conservation, and efficient use of natural resources in the planning of large projects, and to encourage the utilization of indigenous materials and labor sources.

12. To help implement programs to alleviate the impact of various disasters on housing including the coordination of disaster preparedness activities related to housing.

An underlying concern of the Institute is to establish an interdisciplinary environment in which many disciplines within the University and the community can arrive at feasible solutions to housing and building problems. It is located in VH 238, University Park, 554-3171.

Institute in the Creative and Performing Art for the Exceptional

The Institute in the Creative and Performing Arts for the Exceptional provides significant arts expenences for exceptional children and adults working with community erts organizations. Research in the arts are an integral part of the instituto's activities. For more information, contact 554-2095

Institute of Judaic Studies

The Institute of Judaic Studies (IJS) brings the University and the community togother in a mutual effort to nurture teaching and research in academic areas which stand as the cornerstones of Western Civilization The objective of the Institute is to infuse Jewish content into the curriculum of the University at all appropriate levels. Contemporary issues and problems provide focal points for study, dialogue, exchange and travel. The Institute fosters scholarship and inquiry into Jawish themes leading to the development of course offerings within existing academic departments. For more information, call 554-3225.

Institute for Public Management and Community Services

The Institute for Public Management and Community Services (IPMCS) is the research, training, and technical assistance arm of the School of Public Affairs and Services, Established in 1978 by the Board of Regents, the Institute provides an organizational link between FIU and state and local government agencies, as well as nonprofit social service organizations. The major functions of the Institute are to assist these agencies and organizations in more effectively understanding and meeting the increasing demands being placed upon them, and to broaden community understanding of the major public policy issues confronting the State and region.

The Institute is located in ACI-200, North Miami Campus, 940-5888.

institute for Public Policy and Citizenship Studies

The Institute for Public Policy and Citizenship Studies was founded in 1985 to offer students, faculty, and the community alternative learning opportunities in public policy and citizenship development. Four key objectives have guided the Institute's programs:

- To provide non-traditional educational opportunities to the student body on the responsibilities and opportunities of citizenship.
- To assist students and faculty in understanding the impact that public policy has on their daily lives and in their career pursuits.
- 3. To promote interdisciplinary research efforts among faculty on local and national policy matters
- 4 To encourage joint university and community efforts on local policy issues.

The Institute sponsors the Student Honors Mentor Program, a semester long opportunity for students to meet and interact with peers and faculty members from other academic disciplines. The Mentor Program encourages participants to examine a public policy issue in a small group setting through discussions, research, or

innovative projects. In providing an alternative mode of learning, the Institute hopes to give students practical experience in community decisionmaking and problem-solving.

In addition, the Institute sponsors conferences and events focusing on key policy issues that are salient within our local community. Nationally known speakers and University faculty are invited to present their research findings and perspectives on a variety of issues ranging from citizenship education in Dade County to the ethical implications of an aging society to the impact of government regulations on the fishing industry. The conferences are designed to offer the public and university community additional resources in understanding the policy problems that we, as a community, face on a daily basis.

The Institute is located in PC 242, University Park, 554-2977.

Latin American and Caribbean Center

The Latin American and Caribbean Center (LACC) promotes advanced education and research on Latin America and the Caribbean, a region of intense interest to the United States. LACC offers undergraduate and graduate certificate programs to both degree and non-degree seeking students, sponsors and promotes faculty research in the region, and offers public education programs on Latin America and the Caribbean as a means by which to enhance inter-American understanding.

Since it was founded in 1979, LACC has become one of the country's leading programs in Latin American and Caribbean studies. Over sixty language and area studies faculty regularly offer nearly 100 courses on diverse topics. Special seminars on the Latin American debt and business environment as well as other socio-political and historical issues complement LACC's efforts. Externally funded research programs have supported a continual flow of visiting Latin American scholars to the University and gifts from the local community have helped the University to build a strong Latin American and Caribbean studies library collection.

LACC regularly places students in foreign study programs and local internships. More information is available in PC 237, University Park, 554-2894.

Center for Multilingual and Multicultural Studies

The Board of Regents established the Center for Multilingual and Multicultural Studies as a center of excellence in order to improve the quality of foreign languages, bilingual education, linguistics, and multicultural programs offered in the State.

The main purpose of the Center is to develop, plan and coordinate research and training programs in the areas of foreign languages and literature, linguistics, bilingual education, multicultural studies in international and domestic contexts, and international studies. Its primary research programs focus on language policy, immigration, and ethnicity.

The Center houses several projects which serve to carry out its research and training functions. Among them are the Southeast Multifunctional Resource Center, the Cuban Exile History and Archives Project, the Florida Consortium on Multilingual and Multicultural Education, the Negritude in the Americas Project, the Haitian Materials Project, Latino Studies, etc. It also coordinates all multilingual and multicultural activities on campus.

Cuban Exile History and Archives Project

The Cuban Exile Archives collects rare imprints, manuscripts, audiovisuals, ephemeral, artifacts, recorded oral testimonies and machine readable records illustrating and documenting the Cuban-American heritage. It seeks to disseminate them through historical research by members of the University, other area institutions, and the general public. The resulting research is published in Cuban Heritage: A Journal of History and the Humanities which appears quarterly. The preservation of the Cuban community's living testimony through the techniques of oral history is also one of the Project's main concerns. The Cuban Exile History and Archives Project offers a free consultation service to non-profit community organizations. The Project encourages the donation of historically significant materials to the Cuban Exile Archives or to other appropriate repositories.

Southeast Multifunctional Resource Center.

The Southeast Multifunctional Resource Center is one of 16 Title VII Bilingual Education Multifunctional Resource Centers providing technical assistance to state educational agencies, local educational agencies, and institutions of higher education, community based organizations and other agencies which are involved in meeting the needs of limited English proficient persons. The Center serves seven southeastern states: Alabama, Florida, Georgia, Mississippi, North Carolina, South

Carolina, and Tennessee. Recipients of services include school administrators, teachers, paraprofessionals, counselors, psychologists, and special education and vocational education staffs. The Center is located in TR-MO3, University Park, 554-2962. Two toll-free telephone lines serve the region (1-800-325-6002) and the state (1-800-432-1406), respectively.

Small Business Development Center

The Small Business Development Center (SBDC) is a program designed to provide comprehensive small business management and technical assistance to the small business community. The Center serves as a focal point for linking resources of the federal, state, and local governments with those resources of the University and the private sector. These resources are utilized to counsel and train small businesses in resolving startup, organizational, financial, marketing, technical, and other problems they might encounter.

The Small Business Development Center is a basic services center. It disseminates business management information, performs financial analyses and management audits, assists in market and feasibility studies, and provides business management counseling and training.

In June 1980, the SBDC started actively fulfilling its mission to the small business community of greater Miami area by providing counseling services and training programs to the public. In the past year, the SBDC staff provided 3,671 people from the community with small business management training. Also, the Center counseled 1,798 persons in starting and managing their small businesses during the same period.

In particular, the SBDC has developed a reputation for packaging Small Business Administration loan applications. Numerous referrals from the major banks and government agencies in the Miami area have resulted from this. The Center also attracts many clients through its special services such as INFO BID and the Florida Innovation Program. These services are designed to provide, respectively, leads for government and private contracts to Florida small businesses and assistance to the inventor/entrepreneur. Since its inception, the SBDC has expanded its outreach effort. Presently, the Center is subcontracting to Florida Keys Community College in Key West, which significantly increases the geographic coverage of the program.

The SBDC is actively involved in

promoting community relations for the University through the activities of its staff with Chambers of Commerce, trade associations, and community-based organizations. These activities include serving on committees and numerous speaking engagements.

The Center is located in Trailer MO-1, University Park, 554-2272, ACI 350, North Miami Campus, 940-5790, and the World Trade Center, Port

Everglades, 987-0100

Southeast Florida Center of Aging

The Southeast Florida Center on Aging offers a multi-disciplinary program in gerontology with a unique public sector focus. It is the mission of the Center to serve as a focal point for applied public policy research, a designer and implemented of comprehensive gerontological education and training program for students, professionals and older learners, and an innovator and demonstration site for new concepts to serve older persons. The Center seeks to achieve its goals through a wide variety of educational activities designed to further the pursuit of knowledge and understanding about aging in today's society, with particular emphasis upon the development and implementation of public policy.

Objectives

The Center will support, sponsor, conduct, and participate in a wide range of activities aimed at improving the quality of life for older people of South Florida. Pursuant to its mandate for education and training, research and community service, the Center is engaged in:

- Development of gerontology education across disciplines throughout the University community
- Expanded opportunities for training and professional devolopment of persons working with or planning to work with older people.
- 3. Gerontological research, with special emphasis on applied public policy in the area of long term care
- A wide range of lifelong learning and educational opportunities for older people.
- Technical assistance and support to public agencies and community organizations aimed at improving the effectiveness of programs for older people.

The center consists of three components:

Research: focus on applied public policy research as well as promotion of

research involving faculty from a variety of disciplines within the University. There is an emphasis on potential applications of research findings by policy makers and health and social sciences practitioners.

Education and Training: Organization, in close collaboration with the academic departments, of credit and non-credit certificate programs for undergraduate and graduate students and for practitioners in the field of aging. Delivery of training seminars and workshops both at the University and at locations throughout Southeast Florida. These programs are offered with options for continuing advucation credit, a certificate in gerontology, or non-credit.

The Elders Institute, a continuing education program, offers a broad array of continuing education courses for the older learner and is exploring development of additional educational and cultural activities for older persons.

Program Development and Technical Assistance: Design of innovative concepts and programs that further public policy objectives to expand opportunities for older people or to improve the delivery of health and social services to them. The Center provides also assistance and support for agencies and organizations serving older people throughout Florida.

The Center is located in TC 320, North Miami Campus, 940-5550.

Women's Studies Center

The Women's Studies Center serves as a University resource on the specialized concerns and academic interests of women. A major focus of the Center is the interdisciplinary Certificate Program in Women's Studies which provides support for the certificate faculty committee and the development of the program. The Certificate in Women's Studies was established to provide an opportunity for the interdisciplinary study of the historical, political, economic, literary, social, and cultural roles of women; and of the function of gender in various societies and cultures. The program is directed toward specialists and generalists alike: it offers a plan of study for students in the vanous departments who wish to earn a certificate in women's studies. and it welcomes students who wish to enroll in its courses without fulfilling the requirements for the certificate.

The Centor providos a place and opportunity to foster women's progress through such activities as referrals, counseling, peer groups, access to studios and research on women's learning and culture, and assistance on issues of gender inequality. The Center

offers seminars, conferences, lecture series, and related events on both academic and women's issues topics.

The Center is located in OET 5, University Park, 554-2408.

Florida's Statewide Course Numbering System

The course numbers appearing in the catalog are part of a statewide system of prefixes and numbers developed for use by all public post-secondary and participating private institutions in Florida. One of the major purposes of this system is to make transferring easier by identifying courses which are equivalent, no matter where they are taught in the state. All courses designated as equivalent will carry the same prefix and last three digits.

The classifying and numbering of courses is done by faculty in each academic discipline. Their work is reviewed by all of Florida's postsecondary institutions who make suggestions and criticisms to be incorporated into the system.

The course numbering system is, by law, descriptive and not prescriptive. It in no way limits or controls what courses may be offered or how they are taught. It does not affect course titles or descriptions at individual schools. It seeks only to describe what is being offered in post-secondary education in Florida in a manner that is intelligible and useful to students, laculty, and other interested users of the system.

The course numbering system was developed so that equivalent courses could be accepted for transfer without misunderstanding. Each public institution is to accept for transfer credit any course which carries the same prefix and last three digits as a course at the receiving institution. For example, if a student has taken SYG 000 at a community college, he cannot be required to repeat SYG 000 at the school to which he transfers. Further, credit for any course or its equivalent, as judged by the appropriate faculty task force and published in the course numbering system, which can be used by a native student to satisfy degree requirements at a state university can also be used for that purpose by a transfer student regardless of where the credit was earned

It should be noted that a receiving institution is not procluded from using non-equivalent courses for satisfying certain requirements

General Rule for Course Equivalencies

All undergraduate courses bearing the same alpha profix and last three

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numbers (and alpha suffix, if present) have been agreed upon to be equivalent. For example, an introductory course in sociology is offered in over 40 postsecondary institutions in Florida. Since these courses are considered to be equivalent, each one will carry the designator SYG 000.

First Digit

The first digit of the course number is assigned by the institution, generally to indicate the year it is offered: 1 indicates freshman year, 2 indicates sophomore year, etc. In the sociology example mentioned above, one school which offers the course in the freshman year will number it SOC 1000; a school offering the same course in the sophomore year will number it SOC 2000. The variance in first numbers does not affect the equivalency. If the prefix and last three digits are the same, the courses are substantively equivalent.

Each institution will retain its own title for each of its courses. The sociology courses mentioned above are titled at different schools 'Introductory Sociology,' 'General Sociology,' and 'Principles of Sociology.' The title does not affect the equivalency. The courses all carry the same prefix and last three digits; that is what identifies them as equivalent.

Lab indicators

Some courses will carry an alpha suffix indicating a lab. The alpha suffixes "L' and "C" are used as follows to indicate laboratories: "L' means either (a) a course, the content of which is entirely laboratory or (b) the laboratory component of a lecture-lab sequence in which the lab is offered at a different time/place from the lecture.

'C' means a combined lecture-lab course in which the lab is offered in conjunction with the lecture at the same time/same place.

Examples

Marine Biology OCB 013 (lecture only) OCB 013L (lab only) OCB 013C (lecture and Marine Biology

lab with lab combined)

Therefore, OCB 013C is equivalent to OCB 013 plus OCB 013L.

Equivalency of Sequences

In certain cases, sequences of courses in a given discipline are equivalent rather than the individual courses which make up these sequences. (For example, CHM 045 plus CHM _046). In several institutions students have completed substantively equivalent content. These sequences are clearly identified in the Course Equivalency Profiles.

Explanation of Prefixes and Numbers

Prefixes and numbers in the course numbering system are not chosen at random; they are designed to describe course content in an organized fashion within a classification system developed for each subject matter area.

Generally, each of the major classifications in a discipline is represented by a three-alpha prefix. In some cases, one three-alpha prefix has been sufficient for the entire discipline. A discipline may use as many prefixes as necessary to accommodate its major classifications. The logic of the system allows it to be infinitely expandable with minimal disruption to existing numbers.

History, for example, has seven prefixes: AFH, African History; AMH, American History: ASH, Asian History: EUH, European History; HIS, History -General; LAH, Latin American History; and WOH, World History. All history courses in the state will carry one of these prefixes.

A complete inventory of taxonomic listings, equivalent and unique courses has been made available to each academic department of every institution in the state. Students, through their local advisors, should use this information in designing programs which will transfer smoothly.

Exception to the Rule for Equivalencies

The following are exceptions to the general rule for course equivalencies:

1. All numbers which have second digit of 9 (Ex.: ART 2906) are 'place keeper numbers for such courses as

directed independent study, thesis hours, etc. Courses with 900 numbers must be evaluated individually and are not automatically transferable.

2. All internships, practicum, clinical experiences and study abroad course, whatever numbers they carry, are not automatically transferable.

3. Performance or studio courses in Art, Dance, Theatre, and Music are not automatically transferable, but must be evaluated individually.

Authority For Acceptance of Equivalent Courses

Authority for acceptance of equivalent courses is State Board of Education Rule 6A-10.24(16) which states:

(16) When a student transfers among postsecondary area vocationaltechnical centers, community colleges, and universities, the receiving institution shall award credit for courses satisfactorily completed at the previous institutions when the courses are judged by the appropriate common course designation and numbering system faculty task force to be equivalent to courses offered at the receiving institution and are entered in the course numbering system. Credit so awarded can be used by transfer students to satisfy certificate and degree requirements in these institutions on the same basis as native students.

A more specific example is AMH 3421 (Early American History)

- AMH Broad Area of American History; part of discipline of History
- 3 Junior level offering (at this particular institution)
- In Taxonomy for AMH 400 series indicates "Areas in American History"
- In Taxonomy for AMH this digit courses in "History of Florida
- 1 Last digit in this case refers to group of equated courses dealing witrh "Early History of Florida'

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Center

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College of Arts and Sciences

College of Arts and Sciences

The College of Arts and Sciences furthers the study of fundamental intellectual disciplines, and serves the University's other Colleges and Schools. The College grants Bachelor's, Master's, and Ph. D. degrees. In addition, the College serves students who need to complete general education and core curriculum requirements, and other requirements, in order to enroll in specific disciplines or professional programs.

The College is composed of eighteen departments, in addition to the School of Computer Science, the School of Journalism and Mass Communication, and three interdisciplinary programs.

Undergraduate Programs

The College offers departmental programs of study leading to Bachelor's degrees in biological sciences, chemistry, communication (advertising, journalism, public relations, telecommunication), computer science, economics, English, geology, history, international relations, mathematical sciences, mathematics, modern languages (French, German, Portuguese, and Spanish), music, philosophy and religious studies, physics, political science, psychology, sociology and anthropology, statistics, theatre, and visual arts. The College also offers programs of study leading to Bachelor's degrees in environmental studies, humanities and liberal studies.

Minor programs of study are offered in advertising, art history, biology, chemistry, computer science, dance, economics, English, French language and culture, general translation studies, geology, geography, history, human biology, humanities, journalism, international relations, mass communication, mathematical sciences, mathematics, music, philosophy, physics, political science, Portuguese, psychology, public relations, religious studies, sociology and anthropology, Spanish language and culture, statistics, telecommunication, theatre, and visual arts.

Graduate Programs

The College has academic programs leading to Master's degrees in biology, chemistry, computer science, creative writing, economics, environmental and urban systems (offered jointly with the College of Engineering and Applied Sciences), geology, history, hispanic studies, international studies, linguistics, mass communication, mathematical sciences, physics, and psychology.

The College offers academic programs leading to the Ph.D. in biology, computer science, economics, and psychology.

Certificate Programs

Students can earn through the College certificates in: American Studies, Consumer Affairs, Environmental Studies, Ethnic Studies, Gerontological Studies, International Studies, Latin American and Caribbean Studies, Legal Translation and Court Interpreting, Linguistic Studies, Marine Science, Translation Studies, Tropical Commercial Botany, Western Social and Political Thought, and Women's Studies.

Admission

FIU freshmen and sophomore students may be coded with an "intended" major in the College upon earning 24 semester hours.

They may be fully admitted to the College if they have earned 60 semester hours, have a cumulative grade point average (GPA) of 2.0 (2.5 for admission into the School of Journalism and Mass Communication), and have passed the CLAST. Full admission to the College is accomplished by filing the form "Request for Acceptance into Upper Division College/School".

A transfer student with an Associate of Arts degree from a Florida community college, or having completed the equivalent coursework at a four year institution with a minimum of 60 semester hours earned, having a cumulative grade point average (GPA) of 2.0 (2.5 for admission into the School of Journalism and Mass Communication), and having passed the CLAST, may be admitted to a program in the College. Applicants must submit an Application for Admission to the University and must follow the regular University procedures. Applicants must be eligible for admission to the University before admission to the College.

All students are encouraged to seek advising as early as possible in the department/program of their choice, even if they have not yet been fully admitted into that major.

College Requirements for a Baccalaureate Degree

Candidates to the Bachelor's degree must satisfy individual departmental requirements, and the following College requirements, in addition to the University-wide requirements:

 In the last sixty semester hours of enrollment, the student must earn nine semester hours of elective credits through coursework outside the major; six of which are to be taken outside the department sponsoring the program.

 Earn a grade of "C" or higher in all courses required for the major. A grade of "C-" or lower is not acceptable in any required course.

3. Of the total number of hours submitted for graduation, a minimum of lifty semester hours must be in upper division courses. Additionally, the student may submit, with departmental approval, up to ten semester hours of lower division courses taken at the University.

College Requirements for a Minor

Students who desire to earn a minor must satisfy individual departmental/program requirements, and the following College requirements:

1. At least half of the courses used to fulfill the requirements must have been taken at the University.

 Earn a grade of "C" or higher in all courses required for the minor. A grade of "C-" or lower is not acceptable in any required course.

 Of the courses used to fulfill the requirements, at least half of them must be at the upper division level and preferably should include a minimum of one course at the 4000 level.

Note: The programs, policies, requirements, and regulations listed in this catalog are continually subject to review in order to serve the needs of the University's various publics and to respond to the mandates of the Florida Board of Regents and the Florida Legislature. Changes may be made without advance notice. Please refer to the General Information section for the University's policies, requirements, and regulations.

Biological Sciences

Walter M. Goldberg, Professor and

Carlo Ambrosino, Research Scientist Charles Bigger, Associate Professor and Chair of Graduate Studies Chun-fan Chen, Associate Professor

Helen Correll, Research Scientist Leon A. Cuervo, Associate Professor George H. Dalrymple, Associate Professor

Kelsey Downum, Assistant Professor Jack B. Fisher, Research Scientist Kenneth Gordon, Associate Professor Rene Herrera, Assistant Professor William Houghton, Research Scientist Ronald D. Jones, Assistant Professor Suzanne Koptur, Assistant Professor Dayld W. Lee, Associate Professor

John Makemson, Associate Professor

Patsy A. McLaughlin, Research Scientist

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Case K. Okubo, Associate Professor Peter Pechen, Research Scientist John Popenoe, Research Scientist L. Scott Quackenbush, Assistant Professor

Jennifer Richards, Associate Professor

Roger Sanders, Research Scientist Abraham M. Steln, Professor Anitra Thorhaug, Research Scientist Martin L. Tracey, Professor Ophella I. Weeks, Assistant Professor

Degree: Bachelor of Science

General Science Requirements Lower Division

Required Courses: six semester hours of lectures and two semesters of laboratories in each of the following areas: general biology, general chemistry, general physics and organic chemistry; Calculus I and II or Statistics I and II.

Recommended Courses: Foreign language and calculus.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program

Required Courses	
1.PCB 3043 Ecology	3
2.PCB 3513 Genetics	3
3.BCH 3033+L General Biochemistry	5
or	
PCB 3203+L Cell Physiology	4
or	
PCB 4723+L Animal Physiology	4
or	
BOT 4504+L Plant Physiology	4
or	
MCB 4404+L Microbial Physiology	4
or	
PCB 4724+L Comparative Physiolog	gy4

BSC 4931 Senior Seminar

Laboratory Requirement⁴

5. Biology Electives 1,2,3

7. Electives

¹APB 1102C, APB 2040, APB 2170, APB 3253, APB 4240, BSC 2023, BSC 3241, BSC 3913, BSC 3949, BSC 4919, BSC 4949, and EVR 3013, are not applicable to this requirement

5 courses

4 Labs

29-30

²Electives will be chosen in consultation with faculty advisor.

³At least one course must be taken from each of two groups: Cellular Physiological Group, (BCH 3033, 5280;

BOT 4374, 4504, 5515, 5575, 5935; MCB 4203, 5505; MCB 4404, OCB 5635; PCB 3203, 3702, 3703, 3704, 4024, 4233, 4254, 4524, 4723, 5195. 5205, 5259, 5615, 5666, 5777, 5835; ZOO 3753) and Organismal Field Biology Group (BOT 2010,3153, 3353, 3723, 3810, 4374C; BSC 4254, 4934,5215, 5345, 5606, 5825, 5935; ENY 3004; MCB 3023, 4603; OCB 2005. 5635; PCB 4303, 4673, 5676, 5677, 5686, 5687; ZOO 3203, 3603, 3731, 3733, 3734, 3892, 4423, 4713, 4743, 5376, 5745) 4Laboratory requirement is met with four upper division Biology labs from PCB

Students interested in teacher certification should contact the College of Education at 554- 2721.

3043, 3513, and any of the lab electives.

This does not include the lab in

requirement 3.

Master of Science in Biology

To be admitted into the Master's degree program in Biology, a student must:

Hold a Bachelor's degree in a relevant discipline from an accredited college or university;

2. Have a 3.0 average or higher during the last two years of the undergraduate program and a combined score (verbal and quantitative) of 1000 or higher on the Graduate Record Exam 1

3. Two letters of recommendation of the student's academic potential.

4. Foreign students whose native language is not English must take the TOEFL (Test of English as a Foreign Language) and obtain a score of 550 or higher.

Receive approval from the Departmental Graduate Committee

Doctor of Philosophy in Biology

To be admitted into the PH.D program in Biology, a student must.

1 Hold a Bachelor's degree in a relevant discipline from an accredited college or university:

2 Have a 3 2 grade point average during the last two years of the undergraduate program,

3 Have a combined score (verbal and quantitative) of 1,000 on the general Graduate Record Exam (GRE) and the results of the biology advanced section:

4 Foreign students whose native language is not English must take tho TOEFL (Test of English as a Foreign Language) and obtain a score of 550 or higher.

5 Arrange to have three letters of recommendation sent to the Departmental Director of the Graduate Program evaluating the applicant's potential for graduate work:

Receive approval from the Departmental Graduate Committee.

Degree Requirements:

The PH.D in Biology is conferred in recognition of a demonstrated ability to master a specific field of knowledge and to conduct significant independent original research. A minimum of 90 semester credits of graduate work beyond the baccalaureate are required, including a dissertation based upon the student's original research. A maximum of 36 credits may be transferred from other graduate programs with the approval of the Advisory Committee.

Required Courses:

BSC 5408	Experimental Biology	4
BSC 6457	Introduction to Biologi	cal
	Research	3
BSC 5931	Graduate Seminar	
	(a 1 credit course	
	taken twice)	2
BSC 5945	Supervised Teaching	
	in Biology	2
BSC 8980	PH.D. Dissertation	24
Electives 1		55
Foreign Langua	age Competency ²	

¹ No more than 36 credits may be transferred from another graduate program, subject to the approval of the Graduate Committee.

2 Competency will be determined by examination consisting of a clear translation of technical material in a foreign language. Credits taken to gain such proficiency will not count toward graduation. As an alternative, students may substitute either six credits of computer programming or mathematics beyond Calculus II.

Graduation Requirements:

A grade of "C" or higher must be obtained in all courses with a cumulative average of 3 0 or higher in the 90 credits; demonstration of foreign language completed and accepted by the university

Degree Requirements: The Master of Science in Biology consists of 36 credits, including a thesis based upon the student's original rosearch. A maximum of six credits of graduate coursework may be transferred from other institutions, subject to the approval of the Graduate Committee.

Required Cor	urses:	
BSC 5408	Experimental Biology	4
BSC 6457	Introduction to	
	Biological Research	3
BSC 5931	Graduate Seminar	
	(a 1 credit course	
	taken twice)	2

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BSC 6971 Master's Thesis 6
Electives 1 21
Foreign language competency2

1These must include at least 16 credits of courses in the Department of Biological Sciences. No more than six credits can be transferred from another graduate program, subject to the approval of the Graduate Committee. At least six credits must be at the 6000-level (excluding thesis credits). Credits taken at the 4000-level beyond six, or at a lower levels, will not count towards graduation.

Competency will be determined by examination consisting of a clear translation of technical material in a foreign language. Credits taken to gain such proficiency will not count toward graduation. As an alternative, students may substitute either six credits of computer programming or mathematics beyond Calculus II.

Graduation Requirements: A grade of 'C' or higher must be obtained in all courses with a cumulative average of 3.0 or higher in the 36 credits, and a thesis must be completed and accepted after presentation to an ad hoc Thesis Committee chosen by the student's Thesis advisor.

Special Programs Bachelor of Science with Honors

Requirements:

Admission to the Program

a. Permission of the department. Application should be made by letter to the Curriculum Committee from the applicant after completion of two semesters at the University and prior to two semesters before graduation. The letter should state the intended research problem and be countersigned by the Thesis Committee (advisor and mentor)

- b: A minimum GPA of 3.5 in biology, chemistry, physics, geology, and mathematics courses.
 - 2. Graduation Requirements:
- a. A minimum GPA of 3.5 in biology, chemistry, physics, geology, and mathematics courses.
- b. Completion of the BS requirements in Biology and Honors Research (BSC 4015, 1 to 3 credits, and Honors Thesis (BSC 4974, 1 credit).
- c. Completion of Honors research in collaboration with a two-person Honors Committee, consisting of the honors advisor and one other member. The honors advisor must be a tenured or tenure-earning member of the department. The research results must be written in the form of an honors thesis and approved by the Honors Committee.

d. Deposit two completed approved copies of the Honors Thesis with the Department's Office: one copy to be kept in the department and the other to be deposited in the Library:

e. Presentation of the results of the Honors Research in the Graduate Seminar.

Minor in Biology

Required Courses: BSC 1010 and BSC 1011 with labs, and three additional courses, one of which must include a lab and one must be on the 4000- level or higher. Minimum credits beyond BSC 1010 and BSC 1011 with labs are 10 credits.

Pre-Medical, Dentistry, Veterinary Curricula

Programs of study satisfying requirements for admission to colleges of medicine, dentistry, and veterinary medicine are arranged in consultation with a faculty advisor. MAC 3311, CHM 3400, MCB 3023, and ZOO 3603 are recommended as fulfilling the requirements of many professional schools.

A seven year FIU/SECOM program in osteopathic medicine is offered; students must be admitted to FIU and SECOM. Interested students should consult a Biological Sciences advisor.

Certificate Programs in Marine Sciences and in Tropical Commercial Botany

See section on certificate programs under College of Arts and Sciences.

Course Descriptions

Note: Laboratories should be taken concurrently with or subsequent to lectures. Students should register for each separately.

Definition of Prefixes

APB-Applied Biology; BCH-Biochemistry; BOT-Botany; BSC-Introductory Biology; EVR-Environmental Studies; MCB-Microbiology; OCB-Oceanography (Biological); PCB-Process Cell Biology; ZOO-Zoology.

APB 1102C Introductory Botany (4). A history of mankind's study and use of plants, and a survey of plants of economic importance. Includes lab. No science prerequisite.

APB 2040 Foundations of Human Physiology (3) APB 2040L Foundations of Human Physiology Lab (1). Functional survey of the organ systems of the human body. Intended primarily for non-science majors.

APB 2170 Introductory Microbiology

ÀPB 2170L Introductory Micro Lab
(1). Basic concepts of microbes as
pathogens, food spoilage and
fermentative organisms. Microbial
relationships to immunology, sanitation,
pollution and geochemical cycling. Not
applicable for majors in Biological
Sciences or Medical Laboratory
Sciences.

APB 3253 Human Sexual Biology (3). Development, structure, and function of the human organism from a sexual perspective, physio-biology of the adult human sexual response.

APB 4240 Human Systemic Physiology (3) APB 4240L Human Systemic Physiology Lab (1). Selected topics in human physiology with emphasis on topics of clinical significance. Prerequisite: Introductory human physiology or a college level course in biology or chemistry.

BCH 3033 General BlochemIstry (4) BCH 3033L BiochemIstry Lab (1). Chemistry of proteins, lipids, carbohydrates, and nucleic acids; principles of enzymology, metabolism, and bioenergetics. Prerequisite: CHM 3211.

BCH 5280 Bloenergetics (3). The relationship of thermodynamics to living processes; energy transduction, enzymes in coupled systems. Prerequisite: Permission of instructor.

BCH 6935 Advanced Topics in Blochemistry (3). An intensive study of particular biochemical topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisite: Graduate standing.

BOT 2010C Plant Biology (4). An introduction to plant form, function and reproduction: the lives of algae, fungi, bryophytes, ferns, and flowering plants. The course is designed for majors and certificate students; includes a lab.

BOT 3153C Local Flore (3). Laboratory observation of the gross features of vascular plants and practice in the use of keys for identification. Basic ecology of principle plant communities of Southern Florida. Field trips.

BOT 3353C Morphology of Tropical Plants (4). Origin and evolution of plants, especially vascular plants of tropical origin. Analysis of vascular plant anatomy and morphology, emphasizing the underlying principles of plant construction. Includes Lab. Prerequisite: A course in General Biology or permission of instructor.

BOT 3723C Taxonomy of Tropical Plants (4). Introduction to higher plant taxonomy, including nomenclature, modern systems of angiosperm evolution. Emphasis on identification of tropical plant families and plants of economic importance. Course includes lab. Prerequisite: A course in General Biology.

BOT 3810 Economic Botany (3). The origins, domestication and uses of economically important plants. Prerequisites: BSC 1010, APB 1102 or equivalent.

BOT 4374C Plant Development (4). The development of vascular plants, with emphasis on experimental approach to plant anatomy, morphology, and reproduction. Practical instruction in tissue and organ culture. Includes Lab. Prerequisites: BOT 4504 and permission of instructor.

BOT 4504 Plant Physiology (3) BOT 4504L Plant Physiology Lab (1). Plant growth and metabolism in relationship to environment. Photobiology, nutrient relations, transport, and hormones in relation to plant development and function. Prerequisite: Organic Chemistry I.

BOT 5515 Blochemistry of Plant Natural Products (3). Aspects of primary and secondary plant metabolism will be covered including biosynthesis and degradation of natural products as well as their biological/pharmacological activity. Prerequisite: CHM 3211 or BCH 3033.

BOT 5575 Photoblology (3) BOT 5575L Photoblology Lab (1). The study of basic photochemical mechanisms as they occur in molecular biological processes such as plant growth, animal vision, bioluminescence, and radiation damage. Prerequisite: Permission of instructor.

BOT 6275 Plant Breeding Systems (3). Ecology, evolution, genetics and development of plant broeding systems. Prerequisite: Permission of Instructor

BOT 6585C Plant Structure and Function (4). A quantitative assessment of plant architecture, morphology and anatomy in relationship to physiology, including the measurement of water relations, energy and gas exchange. Prerequisite: Permission of instructor.

BOT 6935 Advanced Topics in Botany (3). An intensive study of particular plant topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisits: Graduate standing.

BSC 1010 General Biology I (3) BSC 1010L General Biology Lab (2). A survey of organismal biology; Microbiology, Botany, and zoology. Science background recommended.

BSC 1011 General Blology II (3) BSC 1011L General Blology Lab (2). Biomolecules, cells, energy flow, genetics, and physiology. Science background recommended.

BSC 2023 Human Blology (3) BSC 2023L Human Blology Lab (1). Human structure and function with emphasis on aspects that relate to human development, genetics and neurobiology. Handicapping conditions, mental retardation and behavioral disorders. For non-science majors.

BSC 3913, 4919, 6916, Student Research Lab (1-3). Independent laboratory study in a project or projects of the student's choice. Registration by consultation with instructor. May be repeated for additional credit.

BSC 3949, 4949 Cooperative Education in Biology (1-3). A student majoring in biological sciences may spend several terms fully employed in industry or government in a capacity relating to the major. Prerequisites: Permission of Co-op Education and major department.

BSC 4374C Plant Development (4). Development of plant seeds with particular reference to the anatomy, morphology and reproduction of tropical flowering plants of economic importance. Practical instruction in tissue and organ culture and progation (seeds and soft and woody cuttines) includes laboratory. Prorequisites BOT 4504 and permission of instructor.

BSC 4915L Honors Research (1-3). Laboratory and/or field study in consultation with an Honors Thesis advisor Prerequisite: Science and Math GPA 3.5.

BSC 4931 Senior Seminar (1). An exploration of vanous research works in biological sciences. Oral presentation by the students required. BSC 4934 Topics in Biology (1-3). An intensive study of a particular topic or limited number of topics not otherwise offered in the curriculum.

BSC 4974 Honors Thesis (1). Writing arr Honors Thesis. Prerequisite: BSC 4915.

BSC 5215 Introduction to the Mechanics of Biological Systems (3). Mechanical principles are used to analyze the structure and function of plants and animals; especially the statics of bone systems, and support structures of plants. Prerequisite: Permission of instructor.

BSC 5345 Techniques in Scientific Diving (4). Planning and conducting sale scientific diving operations and research. Prerequisite: Civilian Diving Certificate (NAUI/PADI) or equivalent.

BSC 5408C Experimental Blology (4). Laboratory techniques used in biological research.

BSC 5409C Biology Laboratory Instrumentation for Secondary Teachers I (3). Principles and practice of selected instrumental techniques. Spectrophotometry, electrical measurements and separatory techniques. Not for BSC majors. Prerequisites: Three undergraduate credits in physics, three in chemistry, and six in biology

BSC 5606 Blological Systematics (3). Systems of nomenclature and contemporary topics in classification, including molecular evidence, numerical methods and cladistics. Preroquisito: Permission of instructor.

BSC 5825 Wildlife Blology (3). The study of game and non-game wildlife with emphasis on management and population regulation. Prerequisite: Permission of Instructor.

BSC 5931 Graduate Seminar (1). Oral presentation of an assigned literature survey. Required of candidates in the Honors and Graduate Programs.

BSC 5935, 6936 Topics in Biology (1-3). An intensive study of a particular topic or limited number of topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisite: Senior or graduate standing.

BSC 5945 Supervised Teaching in Biology (1-2). Teaching in a biological discipline, under the supervision of departmental faculty. Prerequisite: Graduate standing BSC 6415 Animal Cella In Culture (3) BSC 6415L Animal Cells In Culture Lab (2). Biology of animal cells cultured in semi-synthetic media: cell nutrition growth, cell cycle analysis, cellular transformation and differentiation, heterokaryons and somatic cell genetics. Prerequisite: Consent of instructor.

BSC 6457 Introduction to Biological Research (3). Analysis of existing biological data and experimental design. Prerequisite: Graduate standing.

BSC 6926 Workshop In Blology (1-2). A short intensive treatment of a specialized research topic or technique. Prerequisite: Permission of instructor.

BSC 6948 Laboratory Visitation (1-2). Student visits to three laboratories to learn techniques and concepts applicable to M.S. or Ph.D. research. Prerequisite: Permission of instructor.

BSC 6971 Master's Thesis (1-6). Completion of dissertation. Prerequisite: Permission of major professor.

BSC 8980 Ph.D. Dissertation (6).

EVR 3013C Ecology of South Florida
(3)

EVR 5061 South Florida Ecology-Field Studies (3). See listing under Environmental Studies.

ENY 3004 General Entomology (3) ENY 3004L Entomology Lab (1). The morphology, systematics, physiology and ecology of the major insect orders, and introduction to basic field procedures. Prerequisite: BSC 1011.

MCB 3023 General Microbiology (3) MCB 3023L General Microbiology Lab (1). Introduction to the principles and techniques of microbiology, genetics, taxonomy, biochemistry and ecology of microorganisms. Prerequisites: One semester of Organic Chemistry; two courses in Biology.

MCB 4203 Microbial Pathogenicity (3) MCB 4203L Microbial Path Lab (1). Host-parasite relationships: physiology of bacterial, fungal and viral pathogens emphasizing mechanisms of pathogenicity and the host response. Prerequisites: MCB 3023

MCB 4404 Microbial Physiology (3) MCB 4404L Microbial Physiology Lab (1). Introduction to the study of physiological and metabolic activities of microorganisms and processes that affect them. Prerequisite: MCB 3023, MCB 3023L.

MCB 4603 Microbial Ecology (3) MCB 4603L Microbial Ecology (1). Principles and applications of microbial interactions with the environment: physical, chemical, and biological. Prerequisite: MCB 3023, MCB 3023L.

MCB 5505 Virology (3)
MCB 5505L Virology Lab (1).
Principles and methods of study of bacterial, plant, and animal viruses.
Molecular aspects of viral development, virus pathogens, and carcinogens.
Prerequisites: Biochemistry, Genetics, and Organic Chemistry.

MCB 6418 Bacterial Mineral Cycling (3). Energy and metabolic processes; detrital food chains; carbon, nitrogen, sullur and trace mineral cycling; chemoautotrophy; global element cycles. Prerequisite: Permission of Instructor.

MCB 6445 Microbial Bloluminescence (3). Molecular mechanisms, physiology, genetics and ecology of bioluminescence in micro-organisms, particularly bacteria. Prerequisite: Permission of Instructor.

MCB 6735 Marine Microbiology (3) MCB 6735L Marine Microbiology Lab (1). Physiological-ecological study of the distribution in situ activity and biology of marine bacteria; public health significance of pathogens and microbial toxins conveyed to man; diseases of marine animals. Prerequisites: MCB 3023 & L and BCH 3033 & L or PCB 3023 & L.

MCB 6935 Advanced Topics in Microbiology (3). An intensive study of particular microbiological topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisite: Graduate standing.

OCB 2003 Introductory Marine Blology (3) OCB 2003L Introductory Marine Blology Lab (1). A survey of marine biological environments and zones, including the relationship of the physical and chemical environment to the distribution of marine plants and animals.

OCB 4674L Techniques in Biological Oceanography (1), A laboratory course designed to acquaint the student with biological sampling techniques at sea. Shipboard experience will be required as part of the course. Prerequisites: Previous course in marine biology; registration in the Marine Science certificate program and permission of instructor. OCB 5635 Coral Reef Ecology (3)
OCB 5635L Coral Reef Ecology Lab
(1). Zoogeography, ecology and
zonation, morphology, and paleontology
of coral reefs around the world with
emphasis on Caribbean forms. Growth,
physiology, productivity, as well as effects
of predation, competition and pollution on
coral reefs are also discussed.

PCB 2510 Introductory Genetics (3). PCB 2510L Introductory Genetics Lab (1). Principles of Mendelian and Molecular genetics with selected examples of applications such as genetic engineering and twin studies.

PCB 3043 Ecology (3)
PCB 3043L Ecology Lab (1). The basic principles governing the interaction of organism and environment. Trophic structure and energetics, species diversity, evolution of populations, biogeochemical cycles.

PCB 3203 Cell Physiology (3)
PCB 3203L Cell Physiology Lab (1).
Biochemical and biophysical principles
of cell physiology: enzyme structure and
function, energy transductions and
conservation, electrical and chemical
signals, cell cycle and cell division.
Prerequisites: Eight semester hours
each of General Biology, General
Physics, and Organic Chemistry.

PCB 3241 Physiology of Aging (2), introductory treatment of the physiology of organ systems with emphasis on the decline in organ function with aging and on the resultant limitations in physiological performance.

PCB 3513 Genetics (3) PCB 3513L Genetics Lab (1). Mendelian inheritance and introduction to molecular genetics. Prerequisites: BSC 1011 and CHM 3210.

PCB 3702 Intermediate Human Physiology (3) PCB 3702L Intermediate Human Physiology Lab (1). Functions of the human body and the physico-chemical mechanisms responsible for each organ's function. Prerequisite: General Biology.

PCB 3703 Human Physiology I (3) PCB 3703L Human Physiology I Lab (1). Basic facts and concepts relating to the physiology of cells and nervous, muscular, and cardiovascular systems, with emphasis on regulatory mechanisms and abnormal physiology. Prerequisites: One year of Biology or Zoology, Chemistry, and Physics.

PCB 3704 Human Physiology II (3) PCB 3704L Human Physiology II Lab (1). Physiology of respiratory, gastrointestinal, excretory, endocrine and reproductive systems. Continuation of PCB 3703. Prerequisites: One year of Biology or Zoolegy; Chemistry, and Physics.

PCB 4024C Cell Biology (4). A structural and molecular analysis of cell function. Prerequisite: PCB 3513.

PCB 4233 Immunology (3)
PCB 4233L Immunology Lab (1).
Fundamentals of immunology including
antibody structure, immunopathology,
molecular recognition at cell surfaces
and immunological aspects of cancer
biology. Prerequisite: General
Microbiology or permission of instructor.

PCB 4254 Developmental Biology (3) PCB 4254L Developmental Biology Lab (1). Comprehensive survey of principles of development and critical analysis of methods used to study these problems. Prerequisites: PCB 3513 and PCB 3203 or BCH 3033.

PCB 4303C Limnology (4). Chemical and physical properties of standing and flowering freshwater systems; ecophysiology and interactions of the fresh water flora and fauna in relation to abiotic factors; oligotrephic to entrophic conditions.

PCB 4524 Molecular Blology (3) PCB 4524L Molecular Blology Leb (1). Advanced nucleic acid and protein biochemistry; biosynthesis of macromolecules and molecular genetics. Prerequisite: Biochemistry or Genetics.

PCB 4673 Evolution (3). A study of the synthetic theory of evolution, its historic and experimental justification and the mechanisms of natural selection. Prerequisites: Genetics, Ecology, or permission of instructor.

PCB 4723 Animal Physiology (3) PCB 4723L Animal Physiology Lab (1). Advanced study of physiological mechanisms employed by animals to maintain function of the organ systems and to interact with the environment. Pererequisites: Organic Chemistry and Cell Physiology or Biochemistry.

PCB 4724 Comparative Physiology (3) PCB 4724L Comparative Physiology Lab (1). Regulation of the internal environment: osmotic gastrointestinal, metabolic, circulatery and respiratery physiology. Prerequisites: General Biology and Organic Chemistry

PCB 5195 Histochemistry/ Microtechnique (3) PCB 5195L Histochemistry/ Microtechnique Lab (1). Chemistry and use of fixatives and dyes; histochemistry emphasizes procedures used in research and pathology labs including techniques for enzymes, protein, carbohydrate, nucleic acids and lipids. Prerequisite: Biochemistry or Cell Physiology.

PCB 5205 Ceil Physiology and Blophysics (3). Fundamental biophysical properties of membranes, transport of passive and active electrical phenomena. Biochemistry and biophysics of contractile mechanisms and information transfer. Prerequisites: Calculus and Physical Chemistry or permission of instructor.

PCB 5259 Topics in Developmental Biology (3). Molecular and cellular mechanisms in the development or plants and animals. Prerequisite: Senior status or permission of instructor.

PCB 5358 Everglades Research and Resources Management (3). Application of basic skills in ecolegy to contemporary issues in the Everglades area, with emphasis on the relation between research and management of wildemess, wildlife, vegetation, water and fire. Prerequisite: PCB 3043 Ecology or permission of instructor.

PCB 5615 Molecular and Organismal Evolution (3). The evolutionary relationships among nucleotides and proteins as well as the processes which yield these relationships. The possible molecular events leading to speciation. Prerequisites: Genetics and Biochemistry.

PCB 5665 Human Genetics (3). Principles and techniques in the analysis of the human race. Prerequisite: PCB 3513.

PCB 5676 Evolution and Development of Sex (3). The evolutionary explanations for the evolution of sexual reproduction and models of sexual differentiation. Prerequisites: Genetics and Evolution or permission of instructor

PCB 5677 Evolution and Devetopment (3). The models and ovidence for the interaction of development and evolution, using both plant and animal systems. Prerequisite. Permission of instructor.

PCB 5686C Population Biology (4). Intrinsic preperties of natural and theoretical populations and their dynamics and interactions, and respenses to disturbance. Includes field preblems and computer exercises. Prerequisite. A course in genetics, evolution, or permission of instructor. PCB 5687 Evolutionary Ecology (3). Adaptations and interactions of plants and animals in natural and disturbed habitats. Prerequisite: PCB 3043 er equivalent.

PCB 5835 Neurophyslology (3) PCB 5835L Neurophyslology (1). Comparative neurophysiology; physicochemical mechanisms of resting and action potentials; synaptic transmission; neural coding and integration; senserymoter function and neurophysiological basis of behavior. Prerequisites: Biochemistry or Cell Physiology, Calculus.

PCB 6175C Blological Electron Microscopy (5). Principles and techniques of transmission and scanning electron microscopy as applied to biological materials. Lecture-laboratory combination, enrollment limited. Prerequisite: Permission of instructer.

PCB 6235 Comparative Immunology (3). An analysis of the immune systems and mechanisms of invertebrate and vertebrate animals. Prerequisite: Permission of instructor.

PCB 6237 Immunogenetics (3). The impact of classical and molecular genetic analyses on our understanding of the immune response. Prerequisite: A course in Immunology and Genetics.

PCB 6255 Gene Expression in Animal Development (3). Introduction to the molecular biology of animal development; DNA structure, chromatin, transcription, molecular strategies in development. Prerequisite: Permission of instructor.

PCB 6345C Quantilative Field Ecology (6). Methodology in the description and analysis of populations and communities. Prerequisites: Permission of instructor and STA 3123 or equivalent.

PCB 6405 Blochemical Ecology (3). Principlos of chemical communication between diverse organisms and the impertance of a varioty of allolechemicals in community structure. Prerequisite. Permission of instructor

PCB 6526 Advanced Molecular Blology (3). Molecular genetics, controlling mechanisms, recombinant DNA, gene splicing and gene vector construction of viral, bacterial, plant and animal systems. Prerequisito. Permission of instructor.

PCB 6566 Chromosome Structure and Function (3). Structural organization and function of the eukaryetic chromosome

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euchromatin/heterochromatin, replication, repair, DNA sequence organization.
Prerequisite: Permission of instructor.

PCB 6786 Membrane Blophysics (3). The structure and function of cell membranes: ionic transport, passive electrical properties, and excitation. Prerequisite: Permission of instructor.

PCB 6875 Trends In Neuroblology (2). Critical analyses and discussions of selected research articles of current interests. Seminar format. Prerequisite: Permission of instructor.

PCB 6935 Advanced Topics In Genetics (3). An intensive study of particular genetical topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisite: Graduate standing.

PCB 7675 Reproductive Immunology (3). Molecular and cellular interactions in early development, ontogenetics, and mother and fetus. Prerequisite:

Permission of instructor.

PCB 7676 Evolution and Development of Sex (3). Models of sexual differentiation and reproduction treated in an evolutionary context. Prerequisite: Permission of instructor.

PCB 7689 Advanced Topics In Population and Evolutionary Genetics (3). Comparison of the synthetic and mutational drift hypotheses; relationships between molecular and phenotypic evolutionary rates and the phenotypic effects of various forms of mutation. Prerequisite: Permission of instructor.

ZOO 3203C Invertebrate Zoology (4). Taxonomy, anatomy, development, physiology and ecology of major invertebrate groups, including terrestrial and aquatic phyla. Prerequisite: BSC 1010 or equivalent.

ZOO 3603 Embryology (3)
ZOO 3603L Embryology Lab (1).
Animal morphogenesis. Laboratory must
be taken with lecture. Prerequisites: One
year of general biology with laboratory or
general zoology and general botany with
laboratory.

ZOO 3731 Human Anatomy (4)
ZOO 3731L Human Anatomy
Demonatration (1). Survey of organ
systems of the human body with major
emphasis on the skeletal, muscular, and
peripheral nervous system.
Demonstrations of the prosected human
cadaver. Prerequisites: A course in
General Biology, General Chemistry, and
General Physics.

200 3733 Human Gross Anatomy I (3) 200 3733L Human Gross Anat I Lab (1). Structure and function of various tissues, organs and organ systems of the human body. Dissection of human cadaver material to reveal the relationships of the various organ systems of the body. Prerequisites: BSC 1011, BSC 1011L, CHM 1046, CHM 1046L, PHY 3054, or equivalents.

ZOO 3734 Human Gross Anatomy II (3) ZOO 3734L Human Gross Anat II Lab (1). Continuation of ZOO 3733. Prerequisites: BSC 1011, BSC 1011L, CHM 1046, CHM 1046L, or equivalents.

ZOO 3753 Histology (3) ZOO 3753L Histology Lab (1). Microscopic anatomy of cells, tissues and organs. Prerequisites: General biology and organic chemistry.

ZOO 3892C Biology of Captive Wildlife (3). Behavior, nutrition, physiology, anatomy, pathology and diseases of captive wildlife. Taught at Metrozoo. Prerequisite: General Biology or permission of instructor.

ZOO 4423C Herpetology (4). Study of the biology of reptiles and amphibians with emphasis on the natural history and ecology of local species. Prerequisites: One year of biological sciences and ecology or permission of instructor.

ZOO 4713C Comparative Vertebrate Anatomy (4). The structural diversity and classification of vertebrates and the evolution of various organ systems. Dissection of a variety of vertebrate specimens to reveal the relationships of the various organ systems of the body. Prerequisite: One year of general biology with laboratory or general zoology with laboratory.

ZOO 4743 Neuroscience (4). Structure and function of the human nervous system. Dissection and demonstration of the various parts of the human brain. Prerequisites: One course in physiology and one course in human anatomy.

ZOO 5256 Biology of Crustaceans (3). ZOO 5266L Biology of Crustaceans Laboratory (1). Morphology, physiology, systematics and evolution in crustaceans.

ZOO 5376 Animal Design and Movement (3). Basic biomechanical and behavioral theories of how animals feed and move. Prerequisites: BSC 1010, BSC 1011, PHY 3053, and PHY 3054 or equivalent.

ZOO 5732 Advanced Anatomy Demonstration (1-4). Dissection and demonstration of the human body with the emphasis on structure and function. May be repeated to a maximum of 8 credits. Prerequisite: ZOO 3733L and ZOO 3734L.

ZOO 5745 Advanced Neuroanatomy (3). In-depth knowledge of the embryonic development, structure, and function of the human nervous system with a great deal of clinical consideration. Prerequisite: ZOO 4743 or permission of instructor.

ZOO 6378C Experimental Approaches to Functional Morphology (4). The use of mechanical analysis, electromyography, high-speed cinematography and other experimental techniques to solve problems in functional morphology. Prerequisite: A course in Anatomy.

ZOO 6935 Advanced Toples in Zoology (3). An intensive study of particular topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisite: Graduate standing.

Chemistry

Leonard S. Keller, Associate Professor and Chairperson

Kenneth G. Furton, Assistant Professor

Arthur W. Herrlott, Professor and Associate Dean

Jeffrey A. Joens, Assistant Professor John T. Landrum, Associate Professor and Graduate Coordinator

Jesus P. Lopez, Assistant Professor Ramon Lopez de la Vega, Assistant Professor

Howard E. Moore, Professor Zalda C. Morales-Martinez, Instructor and Coordinator of Chemistry Labs

John H. Parker, Professor J. Martin Quirke, Associate Professor Donna L. Ticknor, Lecturer Stephen Winkle, Associate Professor

Degree: Bachelor of Science

The chemistry program is accredited by the American Chemical Society and prepares the student for graduate study or a professional career as a chemist in industry, in government service, or in secondary school teaching. (Students interested in secondary teacher certification should contact the College of Education at 554-2721.)

Lower Division Preparation
One year of general chemistry with
laboratory; algebra and trigonometry,
(advanced high school courses in

algebra and trigonometry are acceptable).

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable to the program.

Lower or Upper Division Preparation Differential and Integral Calculus I & II (MAC 3311 & 3312); Organic Chemistry I & II (CHM 3210, 3210L & 3211, 3211L); Physics with Calculus (PHY 3048, 3048L, 3049, 3049L).

Upper Division Program: (60 semester hours) At least 36 credits in chemistry to include

the following.		
CHM 3120	Quantitative Analysis	3
CHM 3120L	Quantitative Analysis	
	Lab	2
CHM 3410	Physical Chemistry I	4
CHM 3411	Physical Chemistry II	4
CHM 3411L	Physical Chemistry	
	Lab I	1
CHM 3412L	Physical Chemistry	
	Lab II	2
CHM 4130	Modern Analytical	
	Chemistry	3
CHM 4130L	Modern Analytical	
	Chemistry Lab	2
CHM 4220	Advanced Organic	
	Chemistry	3
CHM 4320L	Research Techniques	
	in Organic Chemistry	2
CHM 4610	Advanced Inorganic	
	Chemistry	3
CHM 4910L	Undergraduate	
	Research in Chemistry	3

Senior Seminar

Chemistry course

Differential Equations

Multivariable Calculus 3

chosen from the following list. CGS 3420 FORTRAN for Engineers

One additional senior-level (4000)

At least three additional credits to be

CHM 4930

MAP 3302

MAC 3313

Electives

Degree: Bachelor of Arts

This program is designed for students preparing for careers in medicine, dentistry, environmental studies, veterinary medicine, patent law, secondary science education, or criminalistics chemistry Students should complement the basic curriculum with suitable electives chosen in consultation with an advisor. (Students interested in secondary teacher certification should contact the College of Education at 554-2721.)

Lower Division Preparation

One year of general chemistry with laboratory; one year of general biology with laboratory; algebra with

trigonometry (advanced high school courses in algebra and trigonometry are acceptable).

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable to the program.

Lower or Upper Division Preparation Differential and Integral Calculus I & II (MAC 3311 & 3312); Organic Chemistry I & II (CHM 3210, 3210L & 3211,3210L); Physics (either PHY 3048, 3048L and 3049, 3049L or PHY 3053, 3048L and 3054, 3049L).

Upper Division Program: (60 semester hours)

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At least 16 cre-	dits in chemistry to	
include the foll-	owing:	
CHM 3120	Quantitative Analysis	3
CHM 3120L	Quantitative Analysis	
	Lab	2
CHM 3400	Fundamentals of	
	Physical Chemistry	3
CHM 3400L	Fundamentals of	
	Physical Chemistry	
	Lab	1
CHM 4220	Advanced Organic	
	Chemistry	3
CHM 4230L	Structure	
	Determination Lab	1
And at least or	ne additional senior leve	el
(4000) course	in chemistry	3
Electives	•	44

Minor In Chemistry

The Minor requires at least 23 credits in chemistry to include: General Chemistry I & II (CHM 1045, 1045L, and 1046, 1046L) 9 Quantitative Analysis (CHM 3120, 3120L) 5 Organic Chemistry I & II (CHM 3210, 3210L and 3211, 3211L)

At least half of the credits to be counted towards the minor must be taken at the University

Criminalistics-Chemistry Program

The Criminalistics-chemistry Core Requirements are the same as the requirements for the BA degree in chemistry plus Modern Analytical Chemistry (CHM 4130, 4130L) (Degree granted by Department of Chemistry)

Internship: A 3-6 credit internship in the laboratory of a participating criminal justice agency

Criminal Justice Coursework The student should take nine credits of commal justice courses in consultation with an advisor in the Department of Criminal Justice, 940-5850.

Electives: Coursework in the behavioral and political sciences, and upper division coursework in the biological sciences is recommended to total 60 semester hours.

PreMedical, Dentistry, Veterinary, Optometry Curricula

Students who have satisfied the requirements for either the BA or the BS degree in chemistry will also have satisfied the course requirements for admission to professional schools in the above areas. Additional coursework in chemistry and biology relevant to the career objectives of the student may also be taken as electives. Interested students should consult a Chemistry Department faculty advisor.

A seven year FIU/SECOM program in osteopathic medicine is also offered; students must be admitted to FIU and to SECOM (Southeastern College of Osteopathic Medicine).

Cooperative Education

Students seeking the baccalaureate degree in chemistry may also take part in the Cooperative Education Program conducted in conjunction with the Department of Cooperative Education in the Division of Student Affairs. The student spends one or two semesters fully employed in an industrial or governmental chemistry laboratory. For further information consult the Department of Chemistry or the Department of Cooperative Education at 554-2423.

Department Policy

The Department of Chemistry does not award credit for courses by examination; it does, however, award credit for AP Chemistry with a score of 3 or higher and with evidence of a suitable laboratory experience. The department does not award credit for life experience.

Master of Science In Chemistry

The Master of Science degree in chemistry is designed to train chemists for research and development oriented positions in industry, in government service and to provide advanced study in the field for educators teaching at the secondary school and junior college level. The Master of Science degree program is a two year degree for full time students. Part-time students are encouraged to enroll All candidates for the Master of Science degree will do an original thesis research project under the direction of a chemistry faculty

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member. Students graduating with a Master of Science degree in chemistry are well prepared to continue their postgraduate training toward the Ph.D., to work in industry, to work in governmental labs, and to attend Professional (Medical, Dental or Veterinary) Schools. The Master of Science degree widens the career options available to chemistry majors over the Bachelor of Arts or Bachelor of Science degrees.

Graduate coursework in the area of chemistry is appropriate for meeting the continuing education requirements of educators.

Undergraduate Preparation

A bachelor of science degree in chemistry or its equivalent is required of students seeking admission to the Master of Science Program. Individuals having a degree not meeting this requirement will be required to take courses at the undergraduate level to remove any deficiencies. A GPA of 3.0 or above in the last 60 semester hours of upper division coursework or a GRE score of 1000 on the combined quantitative and verbal exams is the minimum academic standard for admission to the program.

Graduate Curriculum

The requirements for completion of the Master of Science degree are:

A core curriculum of nine semester hours plus a minimum of three elective courses in chemistry or suitable cognate areas (including, but not limited to, physics, geology, biology, and mathematics) to be taken at the discretion of the student and at the direction of the Student's Thesis Advisory Committee. Each graduate student must also register for Graduate Seminar during each semester of study and must complete a minimum of 2 semester hours of graduate seminar, 4 semester hours of graduate research and 8 semester hours of thesis research. A grade of 'C' or higher must be obtained in all courses with a cumulative grade point average of 3.0 or higher, and a thesis must be completed and accepted after presentation to the Thesis Committee.

Core Curricul	um	
CHM 5181	Special Topics in	
	Analytical Chemis	stry 3
CHM 5380	Special Topics in	•
	Organic Chemist	ry 3
CHM 6430	Advanced	-
	Thermodynamics	3
CHM 6935	Graduate	
	Seminar	(min) 2
CHM 6910L	Graduate	
	Research	(min) 4
CHM 6970	Thesis Research	(min) 8

Elective courses: (minimum 3 required)

required		
CHM 5440	Kinetics and Catalysis	3
CHM 5280	Natural Products and	
	Biosynthesis	3
CHM 5250	Organic Synthesis	3
CHM 5260	Physical Órganic	
	Chemistry	3
CHM 6511	Polymer Chemistry	3
CHM 6480	Quantum Chemistry	3
CHM 5681	Special Topics in	
	Inorganic Chemistry	3
CHM 5581	Special Topics in	
011111 0001	Physical Chemistry	3
CHM 5490	Spectroscopy and	-
0.1111.0100	Molecular Structure	3
CHM 6461	Statistical	•
J 3401	Thermodynamics	3
		_

Financial Support

Full-time graduate students who are in good academic standing are eligible for financial support. Teaching and research assistantships are available on a competitive basis. Students may also apply for waiver of both In-State and Out-of-State tuition. Inquiries concerning application to the program and availability of financial support should be directed to the Chemistry Graduate Coordinator

Course Descriptions

Note: Laboratories may not be taken prior to the corresponding course. Laboratories must be taken concurrently where noted. Students must register for the laboratory separately.

Definition of Prefixes

CHM-Chemistry; CHS-Chemistry-Specialized, ISC-Interdisciplinary Natural Sciences: OCC-Oceanography-Chemical.

CHM 1032 Survey of General Chemistry (3) CHM 1032L Survey of General Chemistry Lab (1). A basic, onesemester survey course in chemistry for non-majors. Topics include atomic structure, stoichiometry, bonding, equilibrium, electrochemistry. Does not fulfill requirements for chemistry, biology, or premed majors. Laboratory must be taken concurrently with the course. Prerequisite: One year of high school or college algebra.

CHM 1045 General Chemistry I (4) CHM 1045L General Chemistry Lab I

Fundamental principles of general chemistry: states of matter, atomic structure, stoichiometry, chemical bonding, acid-base reactions, gas laws. Concurrent registration in both lecture and laboratory is required. Prerequisite: Second year high school algebra or college algebra.

CHM 1046 General Chemistry II (3) CHM 1046L General Chemistry Lab II (1). Continuation of General Chemistry I (CHM 1045). Fundamental principles of chemistry: thermodynamics, solutions, kinetics, equilibrium and electrochemistry. Concurrent registration in both lecture and laboratory is required. Prerequisites: CHM 1045, CHM 1045L.

CHM 3120 Quantitative Analysis (3) CHM 3120L Quantitative Analysis Lab (2), Fundamentals of classical quantitative analysis. Topics include theory of precipitation, acid-base and oxidation-reduction reactions, as well as an introduction to spectrophotometric methods of analysis, ion-exchange techniques and complex formation. Laboratory must be taken concurrently with the course. Prerequisites: CHM 1046, CHM 1046L.

CHM 3200 Survey of Organic Chemistry (3) CHM 3200L Survey of Organic Chemistry Lab (1). A basic onesemester survey course in organic chemistry for non-majors presenting a broad background in the reactions and structures of organic molecules. Does not fulfill requirements for chemistry, biology, or pre-med majors. Laboratory must be taken concurrently with the course. Prerequisites: CHM 1032, CHM 1032L, or CHM 1046, CHM 1046L.

CHM 3210 Organic Chemistry I (4) CHM 3210L Organic Chemistry Lab i (1). An introduction to chemical bonding and atomic structure theory as it pertains to the chemistry of carbon compounds. Correlation between structure and reactivity of organic molecules followed by a systematic look at the various reaction types using reaction mechanisms as a tool for study. Concurrent registration in both lecture and laboratory is required. Prerequisites: CHM 1046, CHM 1046L.

CHM 3211 Organic Chemistry ii (3) CHM 3211L Organic Chemistry Lab if (1). Continuation of CHM 3210, 3210L. Concurrent registration in lecture and laboratory is required. Prerequisites: CHM 3210, 3210L.

CHM 3400 Fundamentals of Physical Chemistry (3). CHM 3400L Fundamentals of Physical

Chemistry Lab (1). Principles of physical chemistry. Topics include thermodynamics, equilibria. electrochemistry, and reaction kinetics. Laboratory must be taken concurrently with the course. Prerequisites: MAC 3411, 3412, PHY 3048, 3048L PHY 3049, 3049L, or PHY 3053, 3048L, and 3054, 3049L, CHM 3120, 3120L.

CHM 3410 Physical Chemistry I (4). Introduction to quantum mechanics. The Schrodinger equation and its application to rotational, vibrational, and electronic spectroscopy, atomic and molecular structure, and bonding. Prerequisites: MAC 3411, 3412; PHY 3048, 3048L, 3049, 3049L, and CHM 3120, 3120L.

CHM 3411 Physical Chemistry II (4) CHM 3411L Physical Chemistry Lab I (1). A continuation of CHM 3410. Principles of thermodynamics, gas laws, kinetic theory of gases, chemical equilibrium, electrochemistry, and kinetics. Laboratory to be taken concurrently with the course. Prerequisite: CHM 3410 or permission of instructor.

CHM 3412L Physical Chemistry Lab II (2). Laboratory experiments illustrating topics and concepts covered in CHM 3411. Must be taken after successful completion of CHM 3411 and 3411L. Prerequisites: CHM 3411 and 3411L.

CHM 3949, CHM 4949 Cooperative Education in Chemistry (1-3). One semester of fulltime supervised work in an outside laboratory. Limited to students admitted to the University Coop Program. A written report and supervisor evaluation will be required of each student.

CHM 4090L Introduction to Scientific Glassblowing (1). Basic glassblowing operations with glass tubing and rod are taught. Emphasis is on making and repair of scientific glassware. No prerequisites.

CHM 4130 Modern Analytical
Chemistry (3)
CHM 4130L Modern Analytical
Chemistry Lab (2), Instrumental
methods of chemical analysis, including
electroanalytical methods, gas and liquid
chromatography, mass spectrometry, xray fluorescence, and spectrophotometric methods. Laboratory must be
taken concurrently with the lecture.
Prerequisites: CHM 3120, 3120L, CHM
3211, 3211L, CHM 3410, PHY 3048,
3048L, PHY 3049, 3049L, or permission
of instructor.

CHM 4220 Advanced Organic Chemistry (3). An intensive examination of the major areas of contemporary organic chemistry. Reactive intermediates, pericyclic reactions, molecular rearrangements, and modern synthetic methods are among the topics covered. Prerequisites. CHM 3211, 3211L.

CHM 4230L Structure Determination Lab (1). The qualitative analysis of organic compounds using modern spectroscopic, chromatographic and chemical methods. Restricted to B.A. Chemistry majors. Prerequisites: CHM 3211, 3211L.

CHM 4300 Blo-Organic Chemistry (3). Chemistry of naturally-occurring organic compounds of biological importance. The relationship between organic chemistry and the chemical reactions which constitute the living organism. Prerequisite: CHM 3211, 3211L.

CHM 4310 Speciel Topics in Organic Chemistry (VAR). An intensive examination of one or more areas selected by instructor and students. Prerequisites: CHM 3211 and permission of instructor.

CHM 4320L Research Techniques in Organic Chemistry (2). Practical instruction in the more advanced manipulations and procedures of the modern chemistry laboratory. Restricted to B.S. chemistry majors. Prerequisites: CHM 3120, 3211, 3211L, 3410, 3411L.

CHM 4610 Advanced Inorganic Chemistry (3). Atomic structure, periodicity, bonding and structure of inorganic compounds, solution chemistry, ligand field theory, organometallic chemistry, and specific chemistry of the elements.

Prerequisites: CHM 3120, 3211, 3411.

CHM 4610L Advanced Inorganic Chemistry Lab (1). Synthesis, purification, and study of coordination and organometallic compounds. Prerequisite: CHM 3411. Corequisite: CHM 4610.

CHM 4910L Undergraduate Research In Chemistry (VAR). The student works directly with a professor on a research project. Credit is assigned based on 4 hr/wk laboratory/library work per credit hour. May be repeated. A written report is required.

CHM 4930 Senior Seminar (1). Each student will make an oral presentation to faculty and other students enrolled in the seminar course. The subject of the seminar may be either a report of results of an independent study project or a survey of the recent literature on an assigned topic.

CHM 5150 Graduate Analytical Methods (3). Analysis of analytical data, electrochomistry, spectroanalytical techniques, chromatography, survuy of new analytical methods. Proroquisite: Graduate standing or permission of instructor.

CHM 5181 Special Topics in Analytical Chemistry (VAR). An

intensive examination of one or more areas selected by instructor and students. Core course Prerequisite: CHM 4130 or permission of instructor.

CHM 5225 Graduate Organic Chemistry (3). Advanced topics in organic chemistry. Structure of organic molecules, reaction mechanisms, organic synthesis, and natural product chemistry. Prerequisite: CHM 4220 or permission of instructor.

CHM 5250 Organic Synthesis (3). Use of classical and modern reactions in the design and construction of complex organic molecules including natural products. Some topics covered will be construction reactions, refunctionalization, stereochemistry and conformational analysis. Prerequisite: CHM 4220 or permission of instructor.

CHM 5260 Physical Organic Chemistry (3). A series of topics will be discussed including molecular orbital theory as it pertains to organic molecules, kinetic and thermodynamic approaches to the study of reaction mechanisms, quantitative approaches to conformational analysis, etc. Prerequisite: CHM 4220 or permission of instructor.

CHM 5280 Natural Products Chemistry and Biosynthesis (3). Studies of the chemical origins (biosynthesis), properties, and synthesis of the various classes of naturally occurring compounds: terpenes, steroids, alkaloids, acetogenins. Prerequisite: CHM 4220 or permission of instructor

CHM 5380 Special Topics In Organic Chemistry (VAR). An intensive examination of one or more areas selected by instructor and students. Core course Prerequisite: CHM 4220 or permission of instructor.

CHM 5425 Graduate Physical Chemistry (4). Prequantum physics, the Schrodinger equation and its solutions, atoms and molecules, rotational, vibrational, and electronic spectroscopy Prerequisitio Graduate standing or permission of instructor.

CHM 5440 Kinetics and Catalysis (3). Theory of elementary reactions, activated complex theory, mechanisms of complex reactions. Prorequisites: CHM 3411, MAP 3302.

CHM 5490 Spectroscopy and Molecular Structure (3). Introduction to atomic and molecular quantum states, selection rules, and lundamental principles of spectroscopy. Introduction to group theory and to the theory of UV/visible, infrared, Raman, microwave,

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nmr, photoelectron, and mass spectroscopies, and the applications of these methods to the determination of fundamental physical properties and the structure of organic and inorganic molecules. Prerequisite: Physical Chemistry.

CHM 5490L Spectroscopy and Molecular Structure Lab (1). The theory of spectroscopy and the use of modern instrumentation to investigate molecular structure. Prerequisites: CHM 3211, 3211L. Corequisite: PHY 4604 or CHM 5490.

CHM 5506 Physical BlochemIstry (3). Physical properties of biomolecules, molecular conformation; thermodynamic, kinetic, and spectroscopic properties of biomolecules. Prerequisites: CHM 3211, MAC 3311, or permission of instructor.

CHM 5517 Solid State (3). Crystalline form of solids, lattice dynamics, metals, insulators, semiconductors, and dielectric materials. Prerequisite: CHM 5490 or PHY 4604.

CHM 5581 Special Topics In Physical Chemistry (VAR). An intensive examination of one or more areas selected by instructor and students. Prerequisite: CHM 3411 or permission of instructor.

CHM 5650 Physical Inorganic Chemistry (3). Introduction to use of physical methods to determine the structure of inorganic compounds. Prerequisite: CHM 4610 or permission of instructor.

CHM 5681 Special Topics in Inorganic Chemistry (VAR). An intensive examination of one or more areas selected by instructor and students. Prerequisite: CHM 4610 or permission of instructor.

CHM 6157 Advanced Analytical Chemistry (3). Modern analytical methods, applications, and instrumentation. Topics include spectroscopy, chromatography, electrochemistry, optimization theory, and computerized instrumentation. Prerequisite: CHM 4130 or permission of instructor.

CHM 6430 Advanced

Thermodynamics (3). The laws of classical thermodynamics and their application. Open and closed systems, irreversible processes, high and low temperature systems, solids, liquids, and gases. Core course. Prerequisite: CHM 3411 or permission of instructor.

CHM 6461 Statistical Thermodynamics (3), Principles of statistical thermo-

dynamics. Ensembles, classical and quantum statistics, ideal and non-ideal gases, equilibrium, crystals, liquids, and polymers. Prerequisite: CHM 3411 or permission of instructor.

CHM 6480 Quantum Mechanics (3). Introduction to quantum mechanics. The Schrodinger equation and its solutions, approximation methods, spin, symmetry, structure of atoms and molecules. Prerequisite: CHM 3411 or permission of instructor.

CHM 6511 Polymer Chemistry (3). A quantitative study of polymers. Mechanism of formation, configuration of polymer chains, and the relationship between physical properties and chemical constitution. Prerequisite: CHM 3411 or permission of instructor.

CHM 6905 Independent Study In Chemistry (1-6). Independent study and problems in an area of chemistry, under faculty supervision. May be repeated. Prerequisite: Permission of instructor.

CHM 6910L Graduate Research In Chemistry (VAR). The student works directly with a professor on a research project. Credit is assigned on the basis of 4 hr/wk per credit hour. Results to be presented as a seminar. Permission of instructor.

CHM 6935 Graduate Seminar (1). An examination of various current research topics in chemistry. Prerequisite: Graduate standing.

CHM 6940 Supervised Teaching (1-3). Graduate student serves as lecturer and demonstrator in undergraduate laboratories coordinated and supervised by a faculty member. May be repeated. A maximum of three hours may apply to the Master's degree. Prerequisite: Full graduate standing.

CHM 6949 Industrial Internship (3). A semester of supervised work in an outside laboratory. Prerequisite: Permission of instructor.

CHM 6970 Thesis Research (1-10). Research toward completion of Master's Thesis. Repeatable. Prerequisite: Permission of Department.

CHM 6971 Master's Thesia (1-6). Completion of thesis. Prerequisite: Permission of major professor.

CHS 4100 RadlochemIstry (2)
CHS 4100L RadlochemIstal
Techniques Lab (2). Production,
isolation, methods of detection, counting
statistics and estimation of
radioisotopes. Applications to chemical,

physical and biological problems. Laboratory must be taken concurrently with the course. Prerequisites: CHM 1045, 1046, 3120, 3120L; MAC 3411, 3412.

CHS 4591 Internship in Criminalistics Chemistry (3). Internship in a forensicype laboratory, contributing in a specific manner on an assigned problem. Twenty hrs/wk. Written report required. Open only to students in the Criminalistics Chemistry Program. Prerequisite: Senior standing.

ISC 4041 Scientific Literature (1). This course presents a perspective on the scientific literature and scientific documentation. Problems in using and searching the scientific literature will be specifically designed to meet the needs of various disciplines, e.g. chemistry, environmental science, physics, biology. Prerequisites: 16 semester hours of science.

OCC 3002 Chemical Oceanography

OCC 3002L Chemical Oceanography Lab (1). Chemical composition and properties of seawater including major and minor elements. Chemical composition and properties of seawater including major and minor elements, dissolved gases, buffering systems. Lecture and lab should be taken concurrently. Prerequisites: one year of general chemistry with lab; quantitative analysis with lab.

School of Journalism and Mass Communication

J. Arthur Helse, Professor and Director Stanley D. Bogue, Assistant Professor James E. Couch, Associate Professor Humberto Delgado, Assistant Professor Michael O. Fowler, Assistant Professor Charles Green, Executive Director,

Central American Journalism
Project

Peter Habermann, Associate Professor Kevin Hall, Editor-in-Residence Lillian Lodge Kopenhaver, Associate Professor

David L. Martinson, Associate Professor

Gonzalo Soruco, Assistant Professor Lorna Veraldi, Assistant Professor William F. Wright, Associate Professor

Degree: Bachelor of Science

The aim of the undergraduate communication program at the University is to prepare students who:

1. Are broadly educated,

demonstrated by a grasp of the liberal arts and an appreciation of the value of knowledge and learning, including exploration in some depth of a specific field of knowledge outside of communication:

 Can think clearly and objectively about the complexities of the modern world, formulate concepts and effectively communicate this information to targeted audiences:

3. Are proficient in the basic skills necessary to meet professional requirements at the entry level in one of the sequences offered by the department. This shall include the ability to write English to professional standards and to master the mechanics of grammar, spelling, and punctuation; and

 Understand the social, ethical, economic, philosophical, and political aspects of the communication profession

in a global society.

The School offers sequences in advertising, telecommunication, public relations, and journalism. Approximately 25 percent of a student's course work is within the School. The purpose is to provide professional career entry skills as well as a broader understanding of communication processes and techniques and their impact on society

Emphasis is placed on a broad range of knowledge. In keeping with the standards required of nationally-accredited mass communication programs, 90 of the approximately 120 semester hours needed to graduate must be taken outside the School; a minimum of 65 of those hours must be in the liberal arts.

Additionally, students will select an area of concentration outside the field of communication to pursue in depth. Each sequence advisor will provide recommendations for students with particular career goals.

Typing ability is required of all students.

Lower Division Requirements

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program.

Transler students from an accredited two-year college or another accredited institution are required to have completed 48 semiester hours in the liberal arts area. Students are strongly encouraged to take more than 48 hours in the liberal arts at the lower division. All previous course work will be evaluated to ascertain that the applicant to the School has met the University's General Education requirements as well as those of the School and sequence. All

deficiencies must be completed within the first two semesters. The student must have a minimum GPA of 2.5 in all previous coursework.

Admission Policy

All students are admitted to the School on a provisional basis. Continuation in the degree program is contingent upon successful completion of 12 semester hours of communication courses, with at least a 2.5 GPA. The 12 hours must include: MMC 3101, the introductory course to the chosen sequence, and two other three-hour courses in communication.

Language Proficiency

All students are required to pass MMC 3101 with a grade of 'C' or higher before being admitted to official major status in the School, A diagnostic English test will be administered prior to the first class of MMC 3101. Students who do not pass the test will not be allowed to take the course. English courses for those not passing the MMC 3101 diagnostic test will be recommended. Students who do not pass the MMC 3101 class may not enroll in more than nine other semester hours in the School. A passing grade of 'C' or higher in MMC 3101 is required to enrall in JOU 3100, ADV 3101, or RTV 3100

Transfer Credit

Transfer students entering the program may receive credit, with School approval, for a maximum of six semester hours of communication courses taken at another institution with a grade of 'B' or higher in each course. This does not include core course requirements, MMC 3101, MMC 4200, and MMC 4602.

Lower Division Students

Freshmen and sophomores planning to enter the School are encouraged to write or visit the School to discuss requirements, career opportunities, and their programs of study

Acceptable Performance

Only grades of 'C' or higher in School courses, the student's area of concentration, and other courses required by the School shall apply for graduation. A 'C minus' is unacceptable

Graduation Policy

To be eligible for graduation, a student must have a minimum 2.5 GPA in all courses in communication.

Core Course Requirements

In addition to sequence requirements, each student must enroll in the following

courses. Transfer credit is not permitted for any of these courses.

for any of the	ese courses:	
MMC 3101	Writing for Mass	
	Communication	3
MMC 4200	Mass Communication	
	Law	3
MMC 4602	Mass Media and	
	Society	3
	-	0

Advertising

School requirements: Students in the Advertising sequence are required to take the following courses in addition to the nine semester hours of core courses.

Required Courses

nequirea Co	urses	
ADV 3000	Principles of	
	Advertising	3
ADV 3500	Advertising Strategy	
	Research	3
ADV 3200	Advertising Graphics	
	and Production	4
ADV 4100	Advertising	
	Copywriting	3
ADV 4300	Media Planning	3
ADV 4801	Advertising	
	Campaigns	4
RTV 3201	Video Field Production	3

Before taking ADV 3000, students are strongly advised to take:
MAR 3023 Marketing Management 3

Area of Concentration: In consultation with an advisor, students must elect a coherent series of live upper-division courses (15 semester hours) in a non-communication area related to their career emphasis.

Liberal Arts Requirements: Students must earn a minimum of 65 semester hours in liberal arts, 12 of which must be upper division courses.

Lower division courses are recommended in visual arts, drama, foreign language, history, literature, music, philosophy, religion, speech, anthropology, economics, geography, international relations, political science, sociology, and psychology

Upper division courses outside of Liberal Arts are recommended in management, or marketing. All subject areas in liberal arts may qualify, with the approval of the advertising advisor.

Internship: Internships are available for advertising majors who have not yet gained experience in the field. Students who have a 3.0 GPA in School course work and who meet the curricular requirements outlined in the internship packet may elect an internship in consultation with their advisors. The

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internship requires a minimum of 300 hours of work.

Minor in Advertising

Students are required to take two courses from each group for a total of 18 semester hours.

Group I:		
ADV 3000	Principles of Advertising	3
ADV 3500	Advertising Strategy Research	3
Group II:		
ADV 3200	Advertising Graphics	
	and Production	4
ADV 4100	Advertising	
	Copywriting	3
ADV 4300	Media Planning	3
Group III:		
MMC 3101	Writing for Mass Media	3
MMC 4602	Mass Media and	
	Society	3
MMC 4609	Public Opinion and	
	Mass Media	3

Journalism

Students may choose the Print Journalism Track (for newspaper, magazine, or wire service careers), or the Broadcast Journalism Track (for television and radio careers). Students are required to take the following courses in addition to the nine semester hours of core courses:

Print Journalism

riiii Journa	maili	
JOU 3003	Principles of	
	Journalism	3
JOU 3100	News Reporting	3
	(Prerequisites: MMC	
	3101 and JOU 3003)	
JOU 3101	Advanced News	
	Reporting	3
JOU 3200	Editing and Makeup	3
	(Prerequisite: JOU 3100)	
JOU 3300	Feature Writing	3
	(Prerequisite: JOU 3100)	
JOU 4108	Public Affairs	
	Reporting	3
	(Prerequisite: JOU 3101)	
JOU 3312	Specialty	
	Journalism 1-1	1-1
	(Prerequisite: JOU 3100)	
JOU 4004	Perspectives in	
	Mass Media	3
	(Prerequisite: Senior	

Broadcast Journalism

JOU 3003	Principles of Journalism3
JOU 3100	News Reporting 3
	(Prerequisites: MMC
	3101 and JOU 3003)
RTV 3210	Video Field Production 3

standing)

HIV 4302	Broadcast News	
	Reporting	3
	(Prerequisites: JOU	
	3100, RTV 3210).	
RTV 4466	Electronic News	
	Gathering	3
	(Prerequisite: RTV 4302	2)
JOU 4108	Public Affairs	
	Reporting	3
	(Prerequisite: JOU 3100))
JOU 3312	Specialty	
	Journalism 1	-1-1
	(Prerequisite: JOU 310	1)
JOU 4004	Perspectives in	
	Mass Media	3
	(Prerequisite: Senior	
	standing)	

Flectives: Students must select one of

Electives. Students must select one of				
the following co	ourses:			
PGY 3610	Photojournalism	3		
JOU 4208	Magazine Editing and			
	Production	3		
MMC 4500	Media History	3		
RTV 3000	Principles of			
	Telecommunication	3		
ADV 3000	Principles of			
	Advertising	3		
PUR 3000	Principles of Public			
	Relations	3		
MMC 3250	Media Management	3		

Mass Media Internship (for qualified

seniors only)

Public Opinion and the

MMC 4609

MMC 4945

Area of Concentration: In consultation with an advisor, students must develop a coherent series of 15 upper division hours in a field outside the School. Students are encouraged to select a field that will broaden their knowledge. These fields include English literature. history, philosophy, science, the humanities, and political science. Students may select a specialized area of concentration such as economics. criminal justice, international relations, or business, but are encouraged to supplement studies in these fields with liberal arts courses. Students are encouraged to take a course in logic.

Liberal Arts Requirements: Students must earn a minimum of 65 semester hours in liberal arts.

In consultation with an advisor, students must select one upper division course from each of the following five areas: statistics, psychology, economics, political science, and sociology.

Students may take the remaining liberal arts courses in the lower or upper division. Courses in the following areas are recommended. English, philosophy, history, political science, and modern languages.

Internship: The internship is important for journalism majors who have not yet gained experience in the field. Therefore, students who have a 3.0 GPA in School course work and meet the curricular requirements outlined in the internship packet may select the internship in consultation with their advisors. The internship program requires a minimum of 300 hours of work.

Minor in Journalism

The Minor programs require 16 semester hours each.

Print Journalism

Required Cou	rses	
MMC 3101	Writing for Mass	
	Communication	3
JOU 3100	News Reporting	3
JOU 3101	Advanced News	
	Reporting	3
	or	
JOU 3300	Feature Writing	3
JOU 3200	Editing and Make-up or	3
JOU 4108	Public Affairs	
	Reporting	3
JOU 3312	Specialty Journalism	1
JOU 4004	Perspectives in	
	Mass Media	3

Broadcast Journalism

ses	
Writing for Mass	
Communication	3
News Reporting	3
Specialty Journalism	1
Perspectives in Mass	
Media	3
Electronic News	
Gathering	3
Broadcast News	
Reporting	3
	Writing for Mass Communication News Reporting Specialty Journalism Perspectives in Mass Media Electronic News Gathering Broadcast News

Public Relations

Students in the Public Relations sequence are required to take the following courses in addition to the nine semester hours of core courses:

PUR 3000	Principles of Public	
	Relations	3
PUR 4100	Writing for Public	_
	Relations	3
PUR 4101	Publications Editing	
	and Design	3
PUR 4106	Public Relations	
	Project Writing	3
PUR 4800	Public Relations	
	Campaigns	3
PUR 4934	Public Relations	
	Seminar	3
MMC 4420	Mass Communication	-
14110 4420	Research Techniques	3
MMC 4609	Public Opinion and	_
1411410 4003	the Mass Media	3
	the mass media	-

Comparative Systems 3

MMC 4302

	udents must select one of	
the following	courses:	
ADV 3000	Principles of	
	Advertising	3
JOU 4208	Magazine Editing and	
	Production	3
MMC 4945	Internship	3

Area of Concentration: In consultation with an advisor, the student must take 15 upper division semester hours in one area of emphasis outside of the School. These courses should relate to the student's career expectations. Several traditional areas of specialization are as follows:

Governmental public communication (public administration. international relations, criminal justice, or political science)

Corporate public relations (marketing or management)

Non-profit public relations (social sciences or marketing)

Public relations for travel and tourism (hospitality management)

These groupings do not preclude other specialized areas of interest. including modern languages and the certificate programs available in the College of Arts and Sciences.

Liberal Arts Requirements: Students must earn a minimum of 65 semester hours in liberal arts, 12 of which must be upper division courses.

Students must select one course from each of the following subject areas: American or English literature, economics, political science and psychology .

Students may take the remaining liberal arts courses in the lower or upper division. Courses in the following subject areas are strongly recommended: English, psychology, sociology, international relations, and modern languages

Internship: The internship is important for public relations majors who have not vet gained expenence in the field. Therefore, students who have a 3 0 GPA in School course work and meet the curricular requirements outlined in the internship packet may select an internship in consultation with their advisors. This three-somester hour course is one of the School electives The internship program requires a minimum of 300 hours of work

Minor in Public Relations

The Minor program requires 18 semester hours

неqu	rea	Cour	2.08
MMC	310	1	Writ

Writing	for Mass	
Commi	inication	

3

PUR 3000	Principles of Public	
	Relations	3
PUR 4100	Writing for Public	
	Relations	3
PUR 4106	Public Relations	
	Project Writing	3
JOU 4208	Magazine Editing and	
	Production	3
	or	
PUR 4101	Publications Editing	
	and Design	3
PUR 4800	Public Relations	
	Campaigns	3

Telecommunication

School Requirements

Students in the Telecommunication sequence may choose the Production Track or the Management Track.

Students are required to take the following courses in addition to the nine semester hours of core courses:

Production

RTV 3000	Principles of	
	Telecommunication	3
RTV 3100	Writing for Electronic	
	Media	3
RTV 3201	Video Field Production	3
	(Co or prerequisite:	
	RTV 3000)	
RTV 3200	Video Studio	
	Preduction	3
	(Co or prerequisite:	
	RTV 3000)	
RTV 3263	Video Post Production	3
	(Prerequisite: RTV 3201)	
RTV 3207	Video Directing	3
	(Prerequisite: RTV 3200)	
RTV 3500	Programming Theory	3
	(Prerequisite: RTV 3000)	
RTV 4206	Advanced Video	
	Production Workshop	3
MMC 4262	New Technologies	3
MMC 4945	Communication	
	Internship	3
	(For Eligible Students -	
	Co or prerequisite	
	RTV 4206 Students not	
	eligible for MMC 4945	
	must to take MMC 4420.)	
	or	
MMC 4420	Mass Communication	
	Research Techniques	3

Management		
RTV 3000	Principles of	
	Telecommunication	3
RTV 3100	Writing for Electronic	
	Media	3
RTV 3500	Telecommunication	
	Programming Theory	3
	(Prerequisite RTV 3000)	
MMC 3250	Media Management	3
	(Co or prerequisite	
	RTV 3000)	
MMC 4262	New Technologies	3

41141C 430Z	Comparative Systems	J
	(Prerequisite: RTV 300	0)
MMC 4420	Mass Communication	•
	Research Techniques	3
RTV 3201	Video Field Production	3
	(Co or prerequisite:	
	RTV 3000)	
	or	
RTV 3200	Video Studio	
	Production	3
	(Co or prerequisite:	
	RTV 3000)	
MMC 4613	Effects of Mass Media	3
	Or	
MMC 4609	Public Opinion and	
	the Mass Media	3

Area of Concentration: Students must take 15 upper division semester hours in a field outside of the School. This field of study will be decided upon with the advisor, with appropriate consideration given to the student's specialized needs.

Liberal Arts Requirements: Students must earn a minimum from 65 semester hours in liberal arts, of which 12 must be upper division semester hours.

a. Upper Division Courses Students must select a total of 12 semester hours of the following subject areas: art (photography), art history, computer science, English, history, political science, philosophy, sociology or anthropology.

b. Lower Division Courses Students may take the remaining liberal arts courses in the lower division. although only 10 semester hours of lower division at FIU are allowed for students who transfer 60 lower division hours from other institutions.

Internship: The internship is important for telecommunication majors who have not yet gained experience in the field. Therefore, students who have a 3.0 GPA in School course work and meet the curricular requirements outlined in the internship packet may select the internship in consultation with their advisor. The internship requires a minimum of 300 hours of work

Minor in Telecommunication

Required Cou	rses. (15 semester hou	rs)
MMC 4602	Mass Modia and	,
	Society	3
RTV 3000	Principles of	
	Telecommunication	3
RTV 3100	Writing for the Mass	
	Mudia	3
RTV 3201	Video Field	
	Production	3
	(Co or prerequisite	
	RTV 3000)	
	or	
RTV 3200	Video Studio	
	Preduction	3
	(Co or prerequisite	
	RTV 3000)	

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RTV 3500	Telecommunication Programming Theory (Prerequisite: RTV 3000) or	3
MMC 3250	Media Management (Co or prerequisite: RTV 3000)	3
Minor in M	lass Communicati	on
Required Cou	rses: (15 semester hour	s)
MMC 4602	Mass Media and	
	Society	3
MMC 4200	Mass Media Law	3
MMC 4609	Public Opinion and the	e
	Mass Media	3
PUR 3000	Principles of Public	
	Relations	3
	or	
ADV 3000	Principles of	

Elective Course: One three credit elective course at the 3000 level or higher in the School. (May include one of the two remaining courses above.)

Advertising

Principles of

Telecommunication

3

3

Master of Science in Mass Communication

RTV 3000

The graduate program of the School of Journalism and Mass Communication offers professional education leading to the M.S. in Mass Communication with specializations in print and broadcast journalism, telecommunication management, student media advising, and public relations. These specializations began Fall 1988, with specializations in advertising and telecommunication production to be added in the future. The orientation of the graduate program is primarily professional, not theoretical. The program is designed to enhance graduates' abilities to work in the mass communication professions.

Admission Requirements

To be eligible for admission to the graduate program, applicants must meet the following requirements:

- All applicants must have a bachelor's degree from a regionally accredited college or university.
- All candidates must show promise of success in graduate studies.
 The faculty will consider the following criteria in making this determination:
- a. A combination of the Graduate Record Examination (GRE) score and the grade point average (GPA) earned during the junior and senior undergraduate years. Applicants with a GRE score of 1000 must have a GPA of at least 3.0 (on a four-point scale). If the GRE score is lower than 1000, the GPA

must be proportionately higher. If the GPA is below 3.0, the GRE score must be proportionately higher.

- b. Significant professional experience in a field directly related to the specialization the student plans to pursue. Normally, this means at least three years of increasingly responsible and successful work in the field. Applicants without such professional experience must complete additional undergraduate coursework. Some may be required to serve an intemship with a professional organization. Applicants should contact the coordinator of graduate studies to find out what they must do to meet this requirement.
- c. Three letters of recommendation sent to the coordinator of graduate studies. These letters should be from persons competent to judge the applicant's academic or professional record and potential for success as a professional in mass communication.
- d. A detailed statement explaining why the applicant wants to pursue the M.S. in Mass Communication.
- e. Competence in the fundamentals of statistics. Undergraduate coursework in statistics may demonstrate this competence. Applicants who have not studied statistics may be admitted provisionally, to take up to nine semester hours of graduate study while completing coursework in statistics specified by the coordinator of graduate studies.
- All candidates whose native language is not English must present a minimum score of 550 on the Test of English as a Foreign Language (TOEFL).

Application Procedures

A student applying for admission to the graduate program must:

- Submit an application for admission to the University Admissions
 Office
- Have two official copies of transcripts from all colleges or universities attended sent to the Admissions Office. (Copies submitted by applicants will be rejected.)

 Submit scores of the GRE and TOEFL to the Admissions Office.

Admission Deadline

Students wishing admittance to the graduate program must apply six weeks prior to the start of classes of their first term of graduate study.

Students who miss the deadline may receive provisional admittance (affiliated status) to the graduate program and will be allowed to take 12 graduate hours before admittance.

Degree requirements Plan of Study: During the first semester,

students, working with faculty advisors, will plan their pursuit of the master's degree. The study plan will include a timetable for completion of the work. Any changes in the plan must be approved by the student's advisor and the coordinator of graduate studies.

Writing and Typing Proficiency
During the first week of the first
semester, students must take a writing
proficiency exam, which includes
grammar. Students who fail the test
must complete the School's
undergraduate writing course, MMC
3101, with a grade of 'B' or better. (No
graduate credit is given for this course.)
Students may take no more than nine
graduate credits - and no professional
courses - until they pass the writing
proficiency exam or MMC 3101.
Students must also demonstrate
proficiency in typing.

Transfer Credit

Students may petition to transfer up to six hours of graduate credit toward the degree. To be approved for transfer, the courses must have been taken at a regionally accredited college or university; the student's advisor or the coordinator of graduate studies must judge the courses relevant to the student's plan of study; the student must not have used the credits toward another degree; and the student must have earned a 'B' or higher in the courses. No transfer courses will substitute for the School's core requirements.

Time Limit

All work applicable to the degree, including transfer credit, must be completed within six years.

Grades

Students must maintain a minimum GPA of 3.0 in all courses required for the degree. No more than two 'C' grades will be allowed.

Foreign Language Requirements No foreign language will be required unless the student's plan of study includes proliciency in another language.

Professional Project

All students must complete a professional project in their areas of specialization. Work on the project will center around the Professional Project Seminar, a three to six credit hour course to be taken during the final semester. Projects will be graded by an evaluation committee consisting of the

student's advisor, one other faculty member and a professional from outside the academic community. Students must receive a 'B' or higher on the project.

Required Courses To earn the M.S. in Mass

Communication, students must meet the following requirements:

1. Students must take at least 36 hours of acceptable graduate credit. (Students receiving three credit hours for the Professional Project will be required to take one or two 3-credit electives, depending on the specialization.)

2. At least 24 hours must be in

School courses.

3. At least nine hours must be in minor outside the School of Journalism and Mass Communication.

Core Curriculum

All students, in all areas of specialization, must take 12 to 15 semester hours of core courses. They

MMC 6402 Theories of Mass Communication 3 MMC 6445 Applied Research Methods in Media 3 Contemporary Issues in MMC 6615 Mass Communication 3 Professional Project 3-6 MMC 6970

Journalism

Students pursuing the master's degree in journalism may choose the print track (for newspaper and wire service careers) or the broadcast track (for television or radio). Most of the courses in the two tracks share seminars; the practicums are separate.

In addition to the core courses. students must take the following courses.

JOU 6190 Advanced Writing Techniques Seminar (1), (print majors only) to be taken with JOU 6940 Advanced Writing Techniques Practicum (2)

JOU 6195 Seminar on Advanced Broadcast News (broadcast majors only) (1) to be taken with JOU 6945 Practicum in Advanced Broadcast News (2)

JOU 6191 Advanced Reporting Techniques Seminar (1) to be taken with JOU 6941 Advanced Reporting Techniques Practicum (2)

JOU 6192 Seminar on Reporting Public Affairs I (1) to be taken with JOU 6942 Practicum on Reporting Public Affairs (2)

JOU 6193 Seminar on Reporting Public Affairs II (1) to be taken with JOU 6943 Practicum on Reporting Public Affairs II (2)

JOU 6194 Seminar on Special Topics (1) to be taken with JOU 6944 Practicum in Special Topics (2)

Telecommunication Management

In addition to the core courses, students in telecommunication management must take the following courses:

	•	
RTV 5815	Telecommunication	
	Management	_
	Structures	3
RTV 6937	Seminar on	
	Telecommunication	
	Policies and Planning	3
RTV 5936	Seminar in New Mass	
	Communication	
	Technologies	3
RTV 5935	Seminar on Internation	al
	Comparative Systems	3

Student Media Advising

In addition to the core courses, students in student media advising must take the following courses:

JOU 5806 Student Publications Supervision 3 MMC 5207 Ethical and Legal Foundations of the 3 Student Press Trends in Graphic VIC 5205 3 Design

Students specializing in student media advising must take one or two additional 3-credit graduate courses in the School in an appropriate area of emphasis. Courses must be approved by the student's advisor.

Public Relations

In addition to the core courses, students in public relations must take the following courses: PUR 5406 International Public

	Relations	3
PUR 5607	Public Relations	
	Management	3
PUR 5806	Public Relations	
	Strategy, Planning,	
	and Evaluation	3
PUR 6935	Advanced Public	
	Relations Seminar	3

Course Descriptions

Definition of Prefixes

ADV-Advertising, FIL-Film, JOU-Journalism, MMC- Mass Media Communication, PGY-Photography; PUR Public Relations: RTV-Radio-Television

ADV 3000 Principles of Advertising (3) Comprehensive survey of basic principles and practices of advertising emphasizing creativo/media strategy decision processes and historical, social, economic, and social influences

ADV 3101 Print Advertising (3). Advanced theory and practice in

producing print advertising for the various media. Prerequisites: ADV 4100. ADV 3200, and ADV 3500.

ADV 3200 Advertising Graphics and Production (4). Introduction to graphic design and print production. Emphasis on processes and terminology for advertising management. Lab exercises focusing on layout, art selection, type design/specification, printing and TV storyboards. Prerequisites: ADV 3000 and RTV 3201.

ADV 3500 Advertising Strategy Research (3). Nature and application of research utilized in advertising. Emphasis on gathering and analyzing primary and secondary data to determine situation analyses and advertising strategies. Prerequisite: ADV 3000.

ADV 4100 Advertising Copywriting (3). Introduction to copywriting for print and broadcast advertising. Emphasis on message construction relative to strategy, style, form, and format. Prerequisite: ADV 3500 and ADV 3200.

ADV 4103 Radio/TV Advertising (3). Advanced theory and practice of producing radio and TV advertising. Includes production of a radio and TV commercial, Prerequisite: ADV 3500 and ADV 4100.

ADV 4300 Media Planning (3). Planning, execution, and control of advertising media programs. Emphasis on characteristics of the media, buying and selling processes, and methods and techniques used in campaign planning

ADV 4801 Advertising Campaigns (4). Advanced course emphasizing all aspects in developing national and local campaigns. Extensive outside projects including research, creative/media strategy and tactics determination, budgeting, sales promotion, evaluation and presentation. Prerequisites: ADV 3500, ADV 3200, ADV 4100, and ADV 4300

ADV 6355 Advertising and Society (3). The relationship between advertising, economic, political, moral, and ethical issues Prerequisites: ADV 6505, ADV 6705, and ADV 6805

ADV 6805C Advanced Creative Strategy and Tactics (3). Writing and visualization relevant to developing creative strategies for different media, clients and campaigns

FIL 3000 Principles of Film (3). Introduces the film industry, with background structure and functions of the feature film

FIL 4202 Film Production (3). A course in 16mm film production. Students will participate in an organized film production including budgeting, scripting, field production, and editing.

FIL 4300 History of Non-Fiction Film (3). Study of the documentary and propaganda film as a communication art form.

FiL 4408 Contemporary Commercial Film (3). Studies the release cycle of current feature films with attention to the American product.

FIL 4600 Economic Aspects of Film (3). Survey of economic, legal, and logistic considerations in producing and releasing feature films.

FIL 4941 Film Production Workshop (3). Advanced course in 16mm film production. Each student initiates and completes a film project. Prerequisites: FIL 4202 and FIL 3000.

JOU 3003 Principles of Journalism (3). What reporters and editors do and what they think about when they do it: the nature of news and the ethical, legal, social, technical and business questions of finding and presenting it to the public.

JOU 3100 News Reporting (3). To teach the skills necessary to recognize and produce a good news story. Experience with news values/judgments, AP style, news lead construction, news writing formats, and news-gathering, including working with sources. Prerequisites: JOU 3003 and MMC 3101

JOU 3101 Advanced News Reporting (3). Controlled field reporting providing experience in source development, interviewing, writing under deadline pressure, and regular critique of student works, Prerequisite; JOU 3100.

JOU 3200 Editing and Makeup(3). Editing news copy for accuracy, brevity, and clarity, including practice with AP style, copy and proofreading marks. Learning the role and function of the news editor. Design and layout of newspaper pages, including working with art, photographs and headlines, and editing and fitting news copy. Prerequisite: JOU 3100.

JOU 3300 Feature Writing (3). Writing the feature story: human interest, trends, personality profiles, sidebars, backgrounders, color. Prerequisites: JOU 3100.

JOU 3312 Specialty Journalism (1). Seminars in such topics as investigative, political, business, sports, or minority reporting, and editorials and commentary. Must be taken three times. Prerequisite: JOU 3003.

JOU 4004 Perspectives in Mass Media (3). Examination of contemporary issues in journalism, including legal, moral, and ethical questions and the impact of news on society. Prerequisite: Must be taken in the senior year.

JOU 4108 Public Affairs Reporting (3). Actual reporting of area governments and civic affairs. Enhancement of interviewing techniques, investigative skills; includes seminars with politicians, government officials, civic leaders, specialty reporters. Prerequisites: JOU 3101 (for print majors); RTV 4302 (for broadcast majors).

JOU 4208 Magazine Editing and Production (3). Develops skill in writing, editing and design, and a knowledge of planning, typography and graphics. Attention is given to developing lormats, selecting copy, photos, graphics, and type.

JOU 5806 Student Publications
Supervision (3). Designed to assist
teachers and advisers of journalism at
the high school and junior college level,
this course emphasizes the technical
aspects of producing student
newspapers, yearbooks, and
magazines, as well as the legal and
ethical considerations facing today's
adviser. In addition, attention is given to
matters pertaining to curriculum and
methodology for effective journalistic
instruction.

JOU 6196 Advanced Writing Techniques Seminar (1). Seminar in techniques of creative journalistic writing, including description, narration, anecdote, point of view. Prerequisite: Graduate standing. Corequisite: JOU 6940.

JOU 6197 Advanced Reporting Techniques Seminar (1). Intensive instruction in how to find accurate and printable facts, with emphasis on use of public records. Prerequisite: Graduate standing. Corequisite: JOU 6941.

JOU 6198 Seminar on Reporting Public Affairs 1 (1). A journalist's examination of how to report urban government and the forces shaping public policy and decision-making. Prerequisite: Graduate standing. Corequisite: JOU 6942.

JOU 6199 Seminar on Reporting Public Alfairs II (1). A journalist's examination of the judicial system, from police headquarters to the courtroom. Prerequisite: Graduate standing. Corequisite: JOU 6943.

JOU 6931 Seminar on Special Topics (1). Instruction in specialized areas of journalism. Prerequisite: Graduate standing. Corequisite: JOU 6944.

JOU 6940L Advanced Writing Techniques Practicum (2). Intensive practice in writing, using sophisticated techniques learned from the companion seminar, directed by experienced editors. Prerequisite: Graduate standing. Corequisite: JOU 6196.

JOU 6941L Advanced Reporting Techniques Practicum (2). Intensive practice in finding information, particularly in public records; practice in interviewing techniques. Prerequisite: Graduate standing. Corequisite: JOU 6197.

JOU 6942L Practicum in Reporting Public Affairs I (2). Practical experience in covering urban government, under the supervision of experienced editors. Prerequisite: Graduate standing. Corequisite: JOU 6198

JOU 6943L Practicum in Reporting Public Affairs II (2). Practical experience in covering the justice system, from police headquarters to the courtroom, under supervision of experienced editors. Corequisite: JOU 6199.

JOU 6944L Practicum in Special Topics (2). Intensive practice in writing and reporting on specialized areas of journalism under the supervision of an experienced editor. Graduate standing. Corequisite: JOU 6931

JOU 6945L Advanced Broadcast News Practicum (2). Practical experience in using advanced techniques and technologies of electronic news gathering and production. (With companion seminar.).

MMC 3101 Writing for Mass
Communication (3). Instruction and
practice in the techniques used by
reporters, ad copywriters and public
relations writers to produce clear prose
that informs, persuades and entertains,
with exercises aimed at improving
writing abilities.

MMC 3250 Media Management (3). Reviews the organization of radio, TV, magazine, and newspaper enterprises. Pre- or Corequisite: RTV 3000.

MMC 4200 Mass Communication Law (3). Study of laws that regulate U.S.

mass media, interpretations of these laws through recent court decisions, and discussion of the way communicators work within the statutes of their nation and state.

MMC 4253 Advanced Media Management (3). A senior level course dealing with case studies of media organizations. Prerequisite: MMC 3250.

MMC 4262 New Technologies of Communication (3). The principal emphasis is upon new technologies and their utilization by non-profit organizations. Of particular interest are cable television, teletext, satellites, videodisc, and telecommunication trade.

MMC 4302 Comparative Systems of Mass Communication (3). An examination of various national and international mass communication systems and the elements which determine the type of systems currently operating throughout the world. Prerequisite: RTV 3000.

MMC 4420 Research In the Mass Media (3). Organize, authenticate, evaluate, analyze and interpret quantitative information for use in mass media activities. Instruction requires the use of a computer. Prerequisites' Senior standing.

MMC 4500 Media History (3). Development of American media from beginnings in Europe to present day; freedom of the press and its relationships to economic, political, and social trends in society.

MMC 4602 Role of Mass Media in Society (3), investigation of the role played in the U.S. by the mass communication media as a cultural, social, informational, economic, political, and educational force. The interrelationship of all media and their potential impact on the collective population will be studied.

MMC 4609 Public Opinion and the Mass Media (3). Study of the communication process, persuasion, and attitude change. Explores the methods of measuring, analyzing, changing, and/or maintaining the public opinion for socially acceptable causes

MMC 4613 Effects of the Mass Media (3). Reviews the effects of the media, with special attention to children, minorities, terrorism, and Third World countries.

MMC 4905 Independent Study (1-3). Specialized intensive study in an area of special interest to the student. Consent of instructor is required. (Limit of three credits).

MMC 4936 Special Toples (VAR). Intensive study for groups of students of a particular topic or limited number of topics, not otherwise offered in the curriculum. Consent of instructor or School chairperson is required.

MMC 4940 Media Practicum (3). Structured field-work experience in media environment.

MMC 4945 Communication Internship (3). On-the-job learning in activity at selected and approved organizations. Will include newspapers, magazines, radio and TV stations, agencies, and non-profit organizations. Prerequisite: Consent of advisor and RTV 4206.

MMC 5207 Ethical and Legal Foundations of the Student Press (3). Examines ethical and legal foundations underlying the operation of the student press on American campuses, stressing both rights and responsibilities and how to organize publications to protect both.

MMC 5445 Applled Research Methods in the Mass Medla (3). An advanced course in the design, execution, and utilization of research studies by media practitioners with special emphasis on original proprietary studies.

MMC 5661 Minorities and the Mass Media (3). A critical review of the role of the mass media as it relates to ethnic, religious, and social minorities in a pluralistic society.

MMC 5932 Special Topics Seminar (3). A variable topic seminar dealing with issues of interest to the community. Examples are rights of high school journalists, cable TV, the use of minicomputers in creative communication.

MMC 6402 Theories of Mess
Communication (3). Examines theories
and processes of mass communication.
Special emphasis on explaining,
measuring and reporting the impact of
mass communication. Preroquisite:
Graduate standing

Mass Communication (3).
Contemporary issues regarding media responsibility to society and the social responsibility of communicators.
Analysis and evaluation of media ethics and performance. Prerequisite.
Graduate standing.

MMC 6635 Contemporary Issues In

MMC 6950 Mass Communication Professional Project (1-6). The professional project is designed to demonstrate the student's excellence in an area of communication study. Must be completed within one calendar year. Prerequisites: Completion of Core, Sequence Courses and Electives.

PGY 3610 Photojournalism (3). Study of principles and practices of photographic assignments related to coverage of news and feature events, and methods of selecting final photographs from contact prints.

PUR 3000 Principles of Public Relations (3). An introduction to the theory, history, practice, and future of public relations. A comprehensive study of the field.

PUR 4100 Writing for Public Relations (3). Practice in the preparation and production of press releases, public service announcements, media memos and teases, backgrounders and proposals, letters, and brochure and newsletter copy. Prerequisites: PUR 3000 and MMC 3101.

PUR 4101 Publications Editing and Design (3). Design, editing, and production of materials in the area of trade, corporate, organizational, and technical press, with special attention given to typography, style and production of tabloid and magazine format publications.

PUR 4106 Public Relations Project Writing (3). Development of skills related to the writing of materials for special events, feature topics, multimedia presentations and ghostwriting of speeches. Prerequisite: PUR 4100

PUR 4800 Public Relations
Campaigns (3). An advanced course in application of theory to actual implementation of public relations activities, including preparing press kits, press releases, spocial events, brochures, and multimedia presentations. Preroquisite PUR 3000 or consent of instructor

PUR 4934 Public Relations Seminar (3) Open to public relations -emphasis students only A course designed to allow the advanced public relations student to pursue a specially selected, specific area of public relations (i.e., political, medical, financial, government, corporato, educational, etc.) through indepth study under a tutorial stylo of instruction and guidance. Prorequisites PUR 3000 and PUR 4800, or consent of instructer.

PUR 5406 International Public Relations (3). The growing role of public relations in the marketing process of international trade, with emphasis on emerging practices within foreign nations and their impact upon the United States. Pererequisite: PUR 3000, PUR 4800 or permission of instructor.

PUR 5607 Public Relations
Management (3). Operations and
objectives of organized public relations
activities and programs. The role of
management in corporate and agency
public relations and policy formulation in
the public process. Prerequisite: PUR
3000 and PUR 4100 and PUR 4800 or
permission of instructor.

PUR 5806 Public Relations Strategy, Planning and Evaluation (3). Advanced study in evaluating public relations effectiveness, measurement and interpretation of public attitudes, and development of campaign strategies. Prerequisite: PUR 3000 and PUR 4800 or permission of instructor.

PUR 6935 Advanced Public Relations Seminar (3). A series of case studies immerses students in the applications of public relations theory/principles to practice. A variety of different public relations fields will be studied. Prerequisites: PUR 5607 and PUR 5806.

RTV 3000 Principles of Telecommunication (3). Review of telecommunication industries, organization, and practice.

RTV 3100 Writing for the Electronic Media (3). Emphasis placed on writing for broadcast and full program script preparation. Prerequisite: MMC 3101.

RTV 3200 Video Studio Production (3). Introductory course in video production. Major emphasis is on studio production techniques in various settings. Pre- or corequisite: RTV 3000.

RTV 3201 Video Field Production (3). Introductory course in video production. Major emphasis on field (EFP/ENG) production and post-production techniques in various settings. Pre or corequisite: RTV 3000.

RTV 3207 Video Directing (3). Introduction to basic studio and technical directing. Emphasis on aesthetics, proper timing and spot and program directing. Prerequisite: RTV 3200.

RTV 3263 Video Post Production (3). Advanced post production techniques using A & B rolls, complex audio mixes and their preparation and execution. Prerequisite: RTV 3201.

RTV 3500 Telecommunication Programming Theory (3). Introductory course in programming, ratings, and audience analysis. Prerequisite: RTV 3000.

RTV 4206 Advanced Video Production Technique Workshop (3). Advanced course in field video production technique. Emphasis is to develop greater location video skills in narrative construction, including more complex narrative structures, more complex video and audio editing, field camera and sound-recording techniques. Hands-on course.

RTV 4302 Broadcast News Reporting (3). Reporting, writing, and presenting radio and television news programs; analysis of news and public affairs broadcasting; social responsibility for broadcasters. Prerequisite: JOU 3100 and RTV 3210.

RTV 4466 Electronic News Gathering (3). Use of ENG in broadcast journalism. Prerequisites: RTV 3201 and RTV 4302.

RTV 4505 Advanced Programming (3). Use of ratings and audience analysis in radio and TV industries.

RTV 5806 Telecommunication
Management Structures (3). Intensive
study of telecommunication
management problems, theory of same,
solutions of same through practical
application and examination of case
studies. Prerequisite: Graduate
standing.

RTV 5935 Seminar in International Comparative Broadcasting Systems (3). Introduction to international telecommunication systems with special emphasis on broadcasting. Comparison with other countries. Prerequisite: Graduate standing or permission of instructor.

RTV 5936 SemInar In New Mass Communication Technologies (3). Discussion of new communication technologies and their influence on the society. Prerequisite: Graduate standing.

RTV 6309 SemInar on Advanced Broadcast News (1). Seminar in advanced techniques, principles and issues of reporting for the electronic media, from spot news to documentaries. Prerequisite: Graduate standing. Corequisite: JOU 6945.

RTV 6465C Fleid Production Practicum (3). The student will be responsible for the organization and complete pre-production, production, and post-production of his/her project(s). Prerequisite: Graduate standing. RTV 6468C Studio Production Practicum (3). The student will be responsible for the organization and complete pre-production, production and post-production of his/her project(s). Will also be required to do directing and I.D. work. Prerequisite: Graduate standing.

RTV 6937 Seminar in Telecommunication Policies and Planning (3). Introduction to national and international telecommunication policies, with emphasis on planning and decision making. Prerequisite: Graduate standind.

VIC 5205 Trends In Graphics and Design (3). Design principles and how they relate to trends in student and professional media, including newspapers, magazines and yearbooks. Deals with graphics, packaging, typography and modern design.

School of Computer Science

Jalnendra K. Navlakha, Professor and Acting Director

Toby S. Berk, Professor and Associate

David S. Barton, Professor John C. Comfort, Professor Ralmund Ege, Assistant Professor Istvan Erenyl, Visiting Assistant Professor

Carol D. Henley, Instructor William T. Kraynek, Associate Professor

Wesley F. Mackey, Lecturer
Masoud Milanl, Assistant Professor
Ana Pasztor, Associate Professor
Alexandru Pelln, Associate Professor
Norman Pestalna, Instructor
N. Prabhakaran, Assistant Professor
Naphtali Rishe, Associate Professor
Orlando Sauleda, Instructor
Doron Tal, Assistant Professor
Mark Welss, Assistant Professor

The School of Computer Science offers both undergraduate and graduate degree programs. Graduates of the Bachelor of Science program are prepared for entry-level positions involving computer related tasks such as programming and small system design, and for entry into graduate programs involving computers. The Master of Science degree provides study in stateof-the-art computer applications as well as an introduction to the theoretical foundations of computer science. The Doctor of Philosophy in Computer Science is designed to provide study in all major areas of computer science while leading to the frontiers of knowledge in a chosen field of

concentration. The major programs, and a minor program, are described below.

Degree: Bachelor of Science

Lower Division Preparation

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

As part of the 60 semester hours of lower division coursework necessary to enter this upper division major, note the following recommendations or course requirement, or both.

Required Courses:

Recommend	ed for First Year
MAC 2132	Pre-Calculus (if
	necessary)

MAC 3311 Calculus I COP 3210 Programming in Pascal

Note: to Community College students: The equivalent course at the Community College is Advanced Pascal.

Recommended for Second Year

MAC 3312	Calculus II
MAD 3104	Discrete Mathematics
COP 3212	Intermediate
	Programming

Recommended for Third and Fourth

Necollillelloe	d tot tillig and toott	
Years		
ENC 3210	Technical Writing	3
COP 3400	Assembly Language	
	Programming	3
MAD 3512	Introduction to Theory	,
	of Algorithms	3
COP 3530	Data Structures	3
CIS 4610	Introduction to Softwa	re
	Engineering	3
CDA 4101	Structured Computer	
	Organization	3
COP 4610	Operating Systems	
	Principlos	3
STA 3033	Introduction to	
	Probability and	
	Statistics for CS	3
	or	
STA 3321-2	Mathematical	
0.,, 0021-2	Statistics I and II	3-3
	Otalistics i and ii	

From the courses listed below, the student must select three electives, with at least one course from List 1 and one course from List 2.

List 1		
MAD 3305	Graph Theory	3
MAD 3401	Numerical Analysis	3
MHF 4302	Mathematical Logic	3
COT 5420	Theory of	
	Computation I	3
MAD 4203	Introduction to	
	Combinatorics	3

List 2		
CDA 4400	Computer Hardware	
	Analysis	3
CDA 4500	Data Communications	3
CAP 3700	Introduction to	
	Computer Graphics	3
COP 3120	Data Processing	
	and COBOL	3
COP 4555	Survey of Programming	ב
	Languages	'з
COP 4540	Database	_
001 4040	Management	3
COP 5621		3
COF 3021	Compiler Construction	3

Electives: The balance of the 60 semester hours required for graduation may be chosen from any courses in the University approved by the student's advisor. A Computer Science major may not take a computer related course in another department for elective credit, unless specifically approved in advance in writing by the student's advisor.

Remarks: The following courses are not acceptable for credit toward graduation. unless a student has passed the course before declaring a Computer Science major: CGS 2060, CGS 3061, CGS 3300, COP 2172, MAC 3233, STA 3013, STA 3122-23, STA 3132, QMB 3150, FSI 3161.

Minor in Computer Science

Required Cour	ses
COP 3210	Programming in PASCAL
COP 3400	Assembly Language Programming
COP 3212	Intermediate Programming
COP 3120	Data Processing and COBOL or
CGS 3403	COBOL for Non- Computers Science Majors

3

3 3

3

Plus one course selected from the following list: CDA 4101, CDA 4400, CDA 4500, CIS 4610, CAP 3700, COP 4555, MAD 3401, COP 3530. The student must verify that he or she has the prorequisite for the course selected. A grade of 'C' or higher in each of these courses is nocessary for the minor.

Romarks: No mathematical sciences courses (Computer Science, Mathematics, or Statistics) can be applied to more than one minor, nor can courses used to satisfy major requirements be used towards minor requirements. In the case where a mathematical science course is required for a major in one area and a minor in another, the student should see his or her advisor for an appropriate substitution for the requirement of the minor

Master of Science in Computer Science

Admission: The following are in addition to the University's graduate admission requirements.

1. A Bachelor's Degree in Computer Science or equivalent degree in a related field from an accredited university or college as judged by the School's Graduate Committee.

2. A "B" average or better in all coursework attempted while registered as an upper-division student in the Bachelor's degree.

3. Acceptable courses in Calculus and Statistics:

GRE score of at least 650 quantitative and 500 verbal taken within the last five years;

5. Three letters of recommendation from persons in a position to judge the applicant's potential success in graduate study:

6. Approval of the Graduate Committee

Graduate Program of Studies CIS 5611 Software Engineering COP 6611 Advanced Operating Systems 3 COT 5420 Theory of Computation I 3 **COT 6400** Analysis of Algorithms

In addition, the student must choose four courses from the following list, subject to the approval of the Graduate Committee:

Committee.		
CAP 5602	Introduction to Artificial	
	Intelligence	3
CAP 5680	Expert Systems	3
CAP 5701	Advanced Computer	
	Graphics	3
CDA 6501	Distributed Processing	3
CIS 6100	Statistical Computer	
	Performance	
	Evaluation	3
COP 5621	Compiler Construction	3
COT 6421	Theory of	
	Computation II	3
COP 6545	Advanced Topics	-
001 0040	in Database	
	Management	3
CAP 5680	Expert Systems	3
CDA 5312	Micro Processing for	Ŭ
ODA SSIE	Software Designers	3
COP 6556	Semantics of	Ŭ
00, 0000	Programming	
	Languagos	3
MAD 5405	Numerical Methods	3
MAP 6127	Simulation and	3
WAT 0127	Modeling	3
	Modeling	J

In addition, the student must satisfy one of the following two options:

Thosis Option CIS 6970 Thesis

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After completion of the other required courses, the student must conduct a research thesis. The topic must first be approved by the faculty member who will supervise the research and then by the Graduate Committee. The thesis will be accepted only after being read and approved by a Reading Committee. An oral defense is required before the Reading Committee.

Non-Thesis Option: Additional Coursework

The student is required to take at additional six semester hours of approved electives. The student then must pass a comprehensive examination which may have both written and oral parts and which is based on the student's coursework. This examination may not be taken more than two times, except by permission of the Graduate Committee.

Remarks: The program requires a 'B' average or higher and a grade of 'C' or higher in each course. A maximum of two courses may be transferred into the program from outside the University, subject to the approval of the Graduate Committee.

Doctor of Philosophy in Computer Science

The requirements for admission to the doctoral program in Computer Science are:

- A baccalaureate or master degree in Computer Sciences, or equivalent degree in a related field as judged by the School's Graduate Committee.
- Present a minimum of a "B" average on all upper division work and acceptable courses in Calculus and Statistics.
- GRE scores of at least 650 on the quantitative portion and 500 on the verbal portion. The GRE must have been taken within the past five years.
- Three letters of recommendation from persons in a position to judge the applicant's potential for advanced graduate study in computer science.
- 5. Approval of the School of Computer Science Graduate Committee.

Required Courses: All students must complete the following courses and receive a grade of 'B' or higher in each.

Micro Processing for	
Software Designers	3
Distributed Processing	3
Software Engineering	3
Advanced Topics	
in Database	
Management	3
Advanced Operating	
Systems	3
	Software Designers Distributed Processing Software Engineering Advanced Topics in Database Management Advanced Operating

COT 5420	Theory of	
	Computation I	3
COT 6400	Analysis of Algorithms	3
COT 6421	Theory of	
	Computation II	3
MAD 5405	Numerical Methods	3
STA 6807	Queuing and	
	Statistical Models	3

In addition, all students

- Must successfully pass a Qualifying Examination based on the required coursework
- 2. Must take at least 12 hours of 6000-level courses approved by the Graduate Committee;
- Must successfully pass the Ph.D. Candidacy Examination in the field of study which is their major area of research:
- Must write a dissertation on their research and successfully delend it orally
- 5. Must spend at least one academic year in full-time residence. Normally, this will be after passing the qualifying examination.

For additional information and for specific rules and regulations relating to the above, please write to:

Dr. David Barton Graduate Program Director School of Computer Science Florida International University University Park Miami, Florida 33199

Course Description Definition of Prefixes

CAP-Computer Applications; CDA-Computer Design/Architecture; CIS-Computer Information Systems; CGS-Computer General Studies; COC-Computer Concepts; COP-Computer Programming; COT-Computing Theory;

CAP 3700 Introduction to Computer Graphics (3). A lirst course in computer graphics. Course includes several programming assignments using available graphics hardware. There is considerable emphasis on the use of an available graphics software package. Prerequisites: COP 3212 or CGS 3420, and MAC 3312.

CAP 5602 Introduction to Artificial Intelligence (3). Presents the basic concepts of Al and their applications to game playing, problem solving, automated reasoning, natural language processing and expert systems.

Prerequisite: COP 3530.

CAP 5680 Expert Systems (3). Introduction to expert systems, knowledge representation techniques and construction of expert systems. A project such as the implementation of an expert system in a high level Allanguage is required. Prerequisite: COP 3530 or permission of instructor.

CAP 5701 Advanced Computer Graphics (3). Advanced topics in computer graphics: system architecture, interactive techniques, image synthesis, current research areas. Prerequisites: COP 3530 and CAP 3700 or equivalent, or by permission.

CDA 4101 Structured Computer Organization (3). This course investigates the analysis of the levels of organization of computer systems, including the conventional, microprogramming and operating systems levels. A number of major computer systems are analyzed. Prerequisites: MAD 3104, COP 3400 and COP 3212.

CDA 4400 Computer Hardware Analysis (3). The study of hardware functions of a basic computer. Topics include logic elements, arithmetic logic units, control units, memory devices, organization and I/O devices. Prerequisites: MAD 3104 and CDA 4101.

CDA 4500 Data Communications (3). Study of communications-based systems, common carrier facilities, tariffs, and related equipment. Analysis and design of communications networks utilizing various techniques. Uses of communications for data collection, remote computing, message switching. Prerequisite: CDA 4101.

CDA 5312 Micro Processing for Software Designers (3). Design of application software for OEM products. Topics include: 16-bit microprocessor architecture and assembly language, HLLs for design of microprocessor software, software for multiprocessing and multiprocessor systems.

CDA 6501 Distributed Processing (3). Study of distributed systems of user and equipment using data communications lacilities. Analysis of system architecture, hardware, and software for system design. System integrity and performance issues and techniques are examined. Prerequisites: COP 6611, CDA 4500 and STA 6307.

CDA 6939 Special Topics: Advanced Topics in Computer Architecture (3). This course deals with selected special topics in computer architecture. Prerequisite: Permission of Instructor.

CGS 1500 Word Processing with Wordperfect (1). This course is to teach how to use Wordperfect effectively. The student will be expected to become competent Wordperfect user.

CGS 2060 Introduction to Microcomputers (3). A survey of small computers and applications for students without technical background. Topics include: Computer hardware, software, selected applications programs, and programming in BASIC. Not acceptable for credit to Computer Science majors.

CGS 3062 Computers and Society (3). A course for the student who is interested in the effects of computers upon our society. The major locus will be upon social, political, and ethical considerations: what computers are and how they work; applications, such as data banks government uses, simulation; considerations such as privacy and the police state, the cashless society, computers and business, computers and the quality of life, systems analysis and the planned society. The course is oriented toward the non-scientist and requires no background in mathematics. computer science, or social science, As part of the course, students will learn to write and run a simple computer program.

CGS 3403 COBOL for Non-Computer Science Majors (3). Introduction to COBOL and historical background. Flowcharting and program design. This course is not for computer science majors.

GSS 3420 FORTRAN for Engineers (3). A first course in programming that describes the syntax and semantics of the FORTRAN 77 programming language. The development of algorithms will be discussed together with fundamentals of program testing and debugging. Emphasizes those aspects of the language required by students of engineering and natural sciences. Not acceptable for credit for Computer Science majors.

CIS 3900 Independent Study (VAR). Individual conferences, assigned readings, and reports on independent investigations.

CIS 3930 Special Topics (VAR). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered

CIS 4610 Introduction to Software Engineering (3). Basic tools and techniques for specifying, designing, implementing, verifying, and testing large programs. Topics includo: requirements, diagrams, data flow analysis, top down dossign, implementation, and testing:

module organization and development techniques, program correctness, the Software Life Cycle, and an introduction to software management techniques. Prerequisites: COP 3530.

CIS 4905 Independent Study (VAR). Individual conferences, assigned readings, and reports on independent investigations.

CIS 4930 Special Topics (VAR). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

CIS 5611 Software Engineering (3). This course deals with the design of large scale computer programs. Included are topics dealing with planning design, implementation, validation, metrics, and the management of such software projects. Prerequisite: COP 3530.

CIS 5900 Independent Study (1-10). Individual conferences, assigned readings, and reports on independent investigations.

CIS 5910 Project Research (1-6). Advanced undergraduate or master's level research for particular projects. Repeatable. Prerequisite: Permission of Department.

CIS 5931 Special Topics (VAR). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

CIS 6100 Statistical Computer Performance Evaluation (3). An introduction of the tools for quantitative, statistical and rational design, analysis, and optimization of complex computer systems. Prerequisites: STA 6807 and COP 6611.

CIS 6612 Special Topics: Advanced Topics in Software Engineering (3). This course deals with selected topics in software engineering Prerequisito: Permission of instructor

CIS 6931 Special Topics: Advanced Topics in Information Processing (3). This course deals with selected special topics in information processing Prorequisite Permission of Instructor.

CIS 6932 Special Topics: Advanced Topics In Numerical Methods (3). This course deals with selected topics in numerical methods. Prorequisite Permission of Instructor

CIS 6935 Seminar in Contemporary Computer Science (3) Research Seminar in Contemporary Computer Science. Topics will vary from term to term. Prerequisite: Permission of instructor.

CIS 6970 Thesis (1-10). Completion of all other requirements for the M.S. Degree in Computer Science.

CIS 7910 Graduete Research (1-25), Doctoral research prior to candidacy. Repeatable. Prerequisite: Permission of Department.

CIS 7980 Ph.D. Thesis (1-10). PH.D. Thesis. Prerequisite: Prerequisite: Permission of Instructor.

COP 2172 Programming In BASIC (3). Introduction to the BASIC computer language with emphasis on business data processing applications. Using the interactive and batch facilities of the machine, concepts on file organization and techniques for processing are examined. Prerequisite: None. Not acceptable for credit to computer science majors.

COP 2939 Cooperative Education in Computer Science (3). One semester of Iull-time work, or equivalent, in an outside organization, limited to students admitted to the CO-OP program. A written report and supervisor evaluation is required of each student.

Prerequisites: Calculus I and COP 3210.

COP 3120 Date Processing and COBOL (3). A course in programming, oriented toward data processing applications. Various techniques for organizing and processing files; sequential file random-access, indexed and inverted liles. File sorting and maintenance. Program documentation Instruction for COBOL programming language. Applications of computers and data processing in business.
Prerequisite: COP 3212.

COP 3210 Programming in PASCAL (3). A course in the fundamentals of digital computer programming. The concept of an algorithm, pseudo-code; programming, tosting and dobugging using a well-structured language. The syntax and semantics of PASCAL.

COP 3212 Intermediate Programming (3). Covers advanced topics of the PASCAL programming language such as set types, pointer types, recursion, and files; syntax and semantics of FORTHAN 77. Preroquisite. COP 3210 or equivalent

COP 3400 Assembly Language Programming (3), Principles and techniques of digital computers with emphasis on machine language and assembly language programming. Internal representation of numeric and non-numeric information; registers, indexing and computer structure; arithmetic, logical and input-output instructions; fixed and floating arithmetic. Prerequisites: COP 3210 or CGS 3420.

COP 3530 Data Structures (3). Basic concepts of data organization, running time of a program, abstract types, data structures including linked lists, n-ary trees, sets and graphs, internal sorting. Prerequisites: MAD 3104 and COP 3197.

COP 3949 Cooperative Education in Computer Science (3). One semester of full-time work, or equivalent, in an outside organization, limited to students admitted to the CO-OP program. A written report and supervisor evaluation is required of each student. Prerequisites: Calculus II and COP 3212.

COP 4540 Database Management (3). Logical aspects of databases. Topics include: Semantic Binary Model; Relational Model: Network Model; Hierarchical Model; Database Design; Fourth-generational languages; SQL. Corequisite: COP 3530.

COP 4555 Survey of Programming Languages (3). A comparative study of several programming languages. Emphasis is given to design, evaluation and implementation. Programs are written in a few of the languages. Prerequisite: COP 3212.

COP 4610 Operating Systems
Principles (3). A study of the basic
principles of modern multiprogramming
and time-sharing systems. Interrupts and
data channels, multiprocessor system
memory management, virtual memory,
segmentation, process communication,
deadlock, and interlock handling.
Prerequisites: CIS 4610 and CDA 4101.

COP 4939 Cooperative Education In Computer Science (3). One semester of full-time work, or equivalent, in an outside organization, limited to students admitted to the CO-OP program. A written report and supervisor evaluation is required of each student. Prerequisites: MAC 3312, STA 3033 and COP 3212.

COP 5621 Compiler Construction (3). Basic techniques of compilation; selfcompilers; syntax encoding and recognition; code generation and optimization. Prerequisites: MAD 3512 and CIS 4610.

COP 6611 Advanced Operating Systems (3). Topics in operating system design: concurrent scheduling, security and protection, virtualizable architectures and monitors. Prerequisite: COP 4610.

COP 6545 Advanced Toplcs In Database Management (3).
Architecture and implementation aspects of DBMS; Distributed databases; Semantic models; advanced database languages, including Prolog-like languages; Semantic aspects of databases; Database machines. Prerequisite: COP 4540 or COP 5540.

COP 6556 Semantics of Programming Languages (3). This course provides an overview of systematic and effective approaches to programming. Abstraction; formal specification techniques; program verification and; semantics of programming languages. Prerequisite: COT 5420.

COT 5420 Theory of Computation I (3). Abstract models of computation; halting problem; decidability and undecidability; recursive function theory. Prerequisite: MAD 3512.

COT 6400 Analysis of Algorithms (3). Complexity behavior of algorithms is described for Set Manipulation, Graph Theory, and Matrix Manipulation problems, among others. P and NP classes of problems reveal an inherent difficulty in designing efficient algorithms. Prerequisite: COP 3530.

COT 6421 Theory of Computation II (3). Verification of program correctness; program schemes; fixed-point theory of programs; resolution and theorem proving. Prerequisite: COT 5420.

COT 6930 Special Topics: Advanced Topics in Theory (3). This course deals with selected special topics in computing theory. Prerequisite: Permission of instructor.

MAP 6127 Simulation and Modeling (3). Two areas are covered in this course: advanced queueing models and simulation techniques. The relationships between these two areas, applications, and simulation languages will be among the topics covered. Prerequisites: COP 3530; and MAP 5117 or STA 6807.

Economics

Raul Moncarz, Professor and Chairperson
Manuel J. Carvajal, Professor
Robert Cruz, Assistant Professor
Irma de Alonso, Associate Professor
Amitava Dutt, Associate Professor
Maria Dolores Espino, Assistant
Professor

Antonio Jorge, Professor of Political Economy Panagis Llossatios, Professor J. Kenneth Lipner, Assistant Professor Jorge Salazar-Carrillo, Professor Carlos Sevilla, Assistant Professor Jong-Shin Wei, Assistant Professor

Mira Wilkins, Professor Maria Willumsen, Assistant Professor

The major in economics provides the student with an understanding of economic problems and institutions, and analytical tools to apply this knowledge to contemporary problems. The program is designed for the student desiring a career in business, government, international agencies, or multinational corporations; and for those planning graduate study in economics, business, law, public administration, urban studies, or international relations.

Degree: Bachelor of Arts

Lower Division Preparation

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Required Courses: None Recommended Courses: Six semester hours in principles of economics; three semester hours in social science; six to nine semester hours in humanities; six semester hours in English composition; xix semester hours in college algebra and trigonometry; three semester hours in calculus; three semester hours in statistics.

Remarks: The student who has not taken Principles of Economics must enroll in ECO 3021 and ECO 3011 during the first two semesters at the University. Students who expect to go beyond the B.A. level in economics are advised to begin calculus at the lower division level.

Upper Division Program: (60 semester hours)

riequired Courses		
ECÓ 3101	Theory of Price	3
ECO 3203	Aggregate Economic	
	Analysis	3
ECO 3271	Topics in Theory	3
ECO 3303	Development of	
	Economic Thought	3
ECO 4421	Introduction to	
	Econometrics	3
	Additional Economics	
	Courses ¹	15

¹ECO 2013, ECO 2023, ECO 3011, ECO 3021, ECO 3040, and ECO 3431

30

Electives

cannot be included in this grouping of additional courses.

Students may choose to concentrate their studies in one of the following areas: Urban and Environmental Economics; Labor Economics; International Economics, Economic Development; Monetary Theory; Latin American Economics; and Quantitative Methods

Minor in Economics

Required Cou	rses	
ECÖ 3101	Theory of Price	3
ECO 3203	Aggregate Economic	
	Analysis	3
Additional Eco	onomics Courses ¹	9

¹ECO 2013, ECO 2023, ECO 3011, ECO 3021, ECO 3040, and ECO 3431 cannot be included in this grouping.

Remark: Introductory courses in calculus and statistics are strongly recommended for the student minoring in economics.

Master of Arts in Economics

To be admitted into the Master's degree program in Economics, a student must meet the University's graduate admission requirements and:

1. Have a 'B' average (3.0) or higher during the last two years of undergraduate studies, or a combined score (verbal, quantitative, and analytic) of 1,500 or higher on the GRE, or both. (If a student has taken the Graduate Record Examination before the new system was introduced and scored 1000 or higher on the combined verbal and quantitative sections, the student does not have to retake the examination.)

Receive approval of the departmental graduate committee;

3. Have taken as prerequisites intermediate microeconomics, intermediate macroeconomics, statistics, and calculus. A student who has not fulfilled all these prerequisites may be admitted on a provisional basis. Unless specifically exempted, the student must take these courses as required, obtaining no credit for them in the program.

Degree Requirements. The Master's degree program will consist of 30 semester hours of course work, at a graduate level (course numbers 5000 or above). A maximum of six semester hours may be transferred into the program subject to the approval of the graduate committee. All courses listed below carry 3 credits, except the thesis (6 credits). The specific requirements are

Core Semester Hours

ECO 5114 Microeconomic Analysis ECO 5205 Macroeconomic
Analysis 3
ECO 7424 Econometric Methods I 3

Additional Requirements: (12-15 semester hours) Students will be required to write a thesis for 6 credits, (ECO 6971), or take the advanced seminar in applied economics (ECO 6939), which involves writing a research paper.

Electives: (15-18 semester hours) A student must take at least four electives in economics. The additional one or two courses required to complete the Master's program may be taken in Mathematics, International Studies, the College of Business Administration, the School of Public Affairs and Services, or in the other college or schools of the University. The graduate committee must approve courses taken outside the department.

Graduation Requirements: To receive the Master's degree in Economics, the student must complete 30 hours of course work with a 'B' average or higher; must receive a least a 'B' in the core courses; and must receive a grade of 'C' or higher in each course. If the student decides to write a thesis, he must receive the grade of 'PASS' for ECO 6971.

Doctor of Philosophy in Economics

The requirements for admission to the doctoral program in Economics are:

A baccalaureate degree from an accredited university or college.

2. A minimum GPA of 3.0 from the last two years of the undergraduate education or a minimum score of 1650 on the three-part GRE (which every candidate must take). Foreign students whose native language is not English must take the TOEFL and obtain a score of 550 or higher.

 Three letters of recommendation from persons in a position to judge the applicant's suitability for graduate study in economics.

4 Approval of the Graduate Studies Committee of the Department of Economics.

n 5 The following courses at the undergraduate level. Intermediate Microeconomics, Intermediate Macroeconomics, Statistics, and Calculus. Unless specifically exempted, students must take these courses as required. No graduate credit will be awarded for these courses. Those courses are prerequisites for most graduate courses and students cannot take the latter unless they take the

prerequisites, or are specifically exempted by the instructor of the course.

The Ph.D. program is independent of the existing master's program in Economics and students in that program must apply for admission as Ph.D. students. Certain courses taken in the master's program, however, may be transferred and used to fulfill the requirements of the Ph.D. program, with the approval of the Graduate Studies Committee.

Degree Requirements: To obtain the Ph.D. in Economics, students must complete the required coursework and fulfill dissertation requirements.

Coursework

Core Courses:

ECO 7305

 Requirements: Students must complete 48 hours (16 courses) of graduate level coursework, Supervised research, independent studies, seminars, and dissertation credit do not count towards this objective.

This required minimum of 16 courses consists of eight courses in the Core, six courses in three Fields of Specialization (at least two courses per field, some fields may have special requirements), and two electives as approved by the student's advisor who will be assigned to the student at the time of admission to the program.

ECO 7115 Microeconomic Theory I 3 ECO 7116 Microeconomic Theory II 3 ECO 7206 Macroeconomic Theory I 3 ECO 7207 Macroeconomic Theory II ECO 7405 Mathematical Methods in Economic Analysis ECO 7424 Econometric Mathods I 3 ECO 7425 Econometric

Methods II

Thought

History of Economic

3

3

Fields of Specialization:

Advanced Economic Theory Economic Development Economics of Human Resources Economics of Latin America and the Caribbean International Economics Monetary Economics Urban and Regional Economics

 First Year of Graduate Study: Students are required to take courses, which must at least include the first six courses in the core as listed above. At

the end of the year, students are required to pass a comprehensive qualifying examination on core theory the first four of the core courses listed above. A student who lails twice will not be allowed to remain in the program.

Second Year of Graduate Study: Students will be required to take Econometric Methods II (with research paper), History of Economic Thought. and complete coursework in two "major fields" of specialization. The designation "major field" is to indicate a chosen field in which students must pass field examinations by the end of the second year. In contrast, the term "minor field" designates a chosen area that does not require a "field examination" and the courses of which do not have to be taken by the second year. Students who fail twice any of their field examinations will not be allowed to continue in that field.

Dissertation Work

Upon completion of field examination requirements, students will be required to choose a specific area of doctoral research. During this phase, which will normally have a total length of two years, the student will:

- a. Conduct research and complete a dissertation,
 - b. Continue taking courses,
- c. Attend Advanced Workshops by enrolling in ECO 7925 in the dissertation area and present at least one paper a year on the work in that workshop.

Students will normally be required to be enrolled as full-time students at the University for at least a year during the dissertation period. Except under abnormal circumstances, the maximum number of years during which a student may do dissertation work is five years.

Graduation Requirements: To graduate, students must complete all course requirements; fulfill workshop presentation requirements, pass the comprehensive and field examinations, and complete the oral defense and acceptance of the Ph.D. dissertation.

Course Descriptions

Definition of Prefixes

ECO-Economics; ECP-Economic Problems and Policy; ECS-Economic Systems and Development.

ECO 2013 Macro Principles (3).
Introduction to economics from the aggregate point of view. National income accounting, monetary and liscal policy and their interaction in the economy.

ECO 2023 Micro Principles (3). Introduction to economics from the individual point of view. Traditional supply and demand determination and analysis. ECO 3011 Economics, Man and Society-Macro (3). Relationship of economics to aggregate income. Identification of economic and non-economic objectives and problems. Analysis of economic behavior of individuals, business firms, public agencies, and interest groups. Public issue interpretation in the light of economic theory.

ECO 3021 Economics, Man and Society-Micro (3). Relationship of economics to individual action. Identification of economic and non-economic objectives and problems. Analysis of economic behavior of individuals, business firms, public agencies, and interest groups.

ECO 3040 Consumer Economics (3). Consumer behavior; advertising and other influences affecting demand. Patterns of consumer expenditure; effects of public policy on family incomes and consumption patterns. The consumer protection movement.

ECO 3101 Theory of Price (3).
Operation of individual markets; market structure; theory of the firm; theory of production; demand theory; general equilibrium and welfare economics.
Recommended preparation: ECO 3011 and 3021.

ECO 3203 Aggregate Economic Analysis (3). Analysis of the measurement, determination, and control of aggregate economic activity; the monetary system in relation to income and employment; short-term income fluctuations; long-term growth. Recommended preparation: ECO 3011 and 3021.

ECO 3223 Money and Banking (3). Elements of monetary theory; relationships between money, prices, production, and employment; factors determining money supply; history and principles of banking, with special references to the United States.

ECO 3271 Topics In Theory (3). Welfare economics; analysis of factor markets and income distribution; growth theory. Prerequisites: ECO 3101 and ECO 3203.

ECO 3303 Development of Economic Thought (3). Evolution of economic theory and doctrine. Contributions to economic thought from ancient times to J. M. Keynes. Emphasis on institutional lorces shaping the continuum of econ

ECO 3431 Applled Macroeconomics (3). Aggregate economic performance

and business conditions analysis. The nature and causes of business fluctuations. Economic expansions and stagflation. Public policies for economic stability; fiscal policy, monetary policy and income policy. Sectoral analysis and macroeconomic forecasting. Recommended preparation: ECO 3011 and 3021.

ECO 3933 Special Topics (3). A course designed to give students a particular topic or a limited number of topics not otherwise offered in the curriculum.

ECO 3949 Cooperative Education In Economics (3). A student majoring in Economics may spend one or two semesters fully employed in industry or government in a capacity relating to the major.

ECO 4224 issues in Money and Banking (3). Formulation and execution of monetary policy. Analysis of monetary policy as it has been carried out in recent years, and as it should be conducted.

ECO 4321 Radical Political Economy (3). The relationship between Marxist and orthodox economists. Attention given to the New Left and other current criticisms of capitalist economies. Multinational corporate policy, concentration of economic power, income distribution, and Third World development.

ECO 4401 Introduction to
Mathematical Economics (3).
Mathematical formulation of economic
theory, Mathematical treatment of
maximizing and optimizing behavior;
applications to consumer and business
firm theory, value, economic strategies,
growth and stability. Emphasis on
understanding of analytical techniques.
Recommended preparation: ECO 3101
or ECO 3203, and Calculus.

ECO 4410 Measurement and Analysis of Economic Activity (3). Statistics with special reference to economics, including the following topics: quantitative economics, descriptive statistics, probability and inference, and regression analysis applied to economics. Prerequisite: STA 3122 or permission of instructor.

ECO 4421 Introduction to Econometrics (3), Introduction to measurement in economics; numerical evaluation of mathematical models by statistical methods; survey of classical models; discussion of the scope and method of econometric analysis. Prerequisites: ECO 3101, ECO 3203, and ECO 4410 or permission of instructor.

ECO 4504 Economics of Government Spending and Taxation (3). Describes the way resources are allocated in a market economy and cases where markets fail. Analyzes government expenditure policy, principles of taxation, and the various taxes in use today. Prerequisites: ECO 3011 and 3021.

ECO 4622 Economic Development of the United States (3). The growth of the American economy from colonial times to the present. Special emphasis on market forces, institutional arrangements, and policies contributing to this process.

ECO 4623 American Business History (3). The growth of American business from 1880 to present; integration, diversification, and foreign expansion. Business strategies and managerial structures.

ECO 4632 European Economic History (3). The development of Mediterranean and Western European economies, from the earliest times to the 20th Century. Attention is centered on capital accumulation, technology, trade, industrialization, monetary factors, and the role of government in economic organization.

ECO 4701 World Economy (3) A broad overview of the international economy in historical perspective Topics economic demography, trade flows, capital movements, diffusion of technology, the emergence of transnational institutions. The student obtains a conception of how economic interdependence has developed.

ECO 4703 International Economics (3). Principles of international trade and balance of payments; significance of geographic, economic, social, and political influences; current problems in international trade and payments, tariffs and commercial policy; role of international organizations. Recommended preparation ECO 3101

ECO 4713 International Monetary Relations (3). International money and capital markets; international financial institutions. Interprotation of balance of payments statements. Adjustments to disequilibria, through changes in prices, exchange rates, and national income. Recommended preparation. ECO 3203

ECO 4733 Multinational Corporation (3). Growth and development of multinational enterprise Theories of direct foreign investment Impact on the United States and other developed and less developed nations. Policy implications relating to employment, economic growth, balance of payments, taxation, and national defense. National sovereignty and the multinational corporation.

ECO 4906 Undergraduate Tutorial (3). Supervised readings, individual tutorial, and preparation of reports. Requires consent of faculty supervisor and Department Chairperson.

ECO 4934 Special Topics (3). A course designed to give students a particular topic or a limited number of topics not otherwise offered in the curriculum

ECO 4949 Cooperative Education in Economics (3). A student majoring in economics may spend one or two semesters fully employed in industry or government in a capacity relating to the major.

ECO 5114 Microeconomic Analysis (3). Introduction to the theory of the firm, utility theory, and market behavior under competitive, monopolistic and oligopolistic conditions; the theory of the optimal allocation of resources.

Prerequisites: Intermediate microeconomics, Calculus I; Calculus II recommended.

ECO 5205 Macroeconomic Analysis (3). Introduction to the theory of unemployment, inflation, cycles, growth and the balance of payments. Prerequisites: Intermediate macroeconomic theory, Calculus I, Statistics; Calculus II recommended

ECO 5403 Mathematical Methods in Economic Analysis (3). Application of mathematical methods to economics. The topics and tools of mathematical economics are presented in a rigorous lashion within an economic context. Preroquisites: Calculus I, ECO 3101 and ECO 3203, or equivalents.

ECO 5423 Econometrics (3). Introduction to econometric analysis: application of linear regression methods and other techniques to economic models, key problems in quantitative research in economics Prorequisites. STA 3164 or STA 5236, Calculus I; Calculus II and Linear Algebra recommended

ECO 5709 The World Economy (3). Designed to give an overview of the crucial issues in the world economy. The course covers trade, capital, labor, and technology flows, transnational economic organizations, current economic crisis; global economic interdependence, and the nature and characteristics of international economic order. Required for MIB Program

ECO 5735 Multinational Corporations (3). Economic theory and multinational corporations. Economic effects. Consequences of nationalization. Spread of the multinational form. Stateowned multinational corporations. Prerequisite: Permission of instructor for undergraduates.

ECO 5906 Advanced individual Study (3). Supervised readings, individual tutorial, and preparation of report. Requires consent of faculty supervisor and Department Chairperson. Open to seniors and graduate students.

ECO 5936 Special Topics (3). A course designed to give students a particular topic or a limited number of topics not otherwise offered in the curriculum.

ECO 5945 Internship (3). Directed individual study which assists the student in using economic analysis in his employment. Prerequisite: Permission of the instructor.

ECO 6936 Special Topics (3). A course designed to give students a particular topic or a limited number of topics not otherwise offered in the curriculum.

ECO 6938 Individual Graduate Study (6-9). Supervised readings, tutorial, and preparation of report. Open only to graduate students. Requires consent of supervisor and approval of Department Chairperson.

ECO 6939 Advanced Seminar In Applied Economics (3), Variable-topic study group in application of economic analysis to specific problems. Open to seniors and graduale students.

ECO 6971 Thesis (6). Writing and complotion of thesis by candidate for a Master of Arts. Prorequisites: Student must be a Master's degree candidate, have had at least 15 hours of graduate work in economics; have a thesis topic approved by the Department's Graduate Committee and permission from the instructor.

ECO 7115 Microeconomic Theory I
(3). Models of consumer and producer
behavior, partial equilibrium analysis of
product and factor markets, two/sector
models of general equilibrium and
welfare economics. Prerequisites: ECO
3101 or equivalent, Calculus I, Calculus
II recommended

ECO 7116 Microeconomic Theory II (3). The Hicks/Samuelson and Arrow/Debreu models of general equilibrium Activity analysis and competitive equilibrium. Capital theory Lootiel/Sraffra/Marx Systems.

Temporary equilibrium and money. Prerequisites: ECO 7115 and ECO 7405.

ECO 7118 Graduate Seminar in Economic Theory (3). Variable-topic graduate study group in theoretical problems. Open only to students with graduate standing.

ECO 7135 Growth, Distribution and Prices (3). Alternative theories of growth, income distribution and prices. Basic growth models; neoclassical capital theory and Cambridge controversies; neo/Marxian, neo/Keynesian and other approaches. Prerequisites: ECO 7116, ECO 7207, ECO 7405.

ECO 7136 Classical and Marxian Economic Theory (3). Classical and Marxian theories of value and capital in a mathematical mode. The Transformation Problem. Simple and expanded reproduction. The falling rate of profit and other Marxian crises. Prerequisities: ECO 7115, ECO 7206, ECO 7405, ECO 7116.

ECO 7206 Macroeconomic Theory I
(3). Analysis of macroeconomic models
of income determination and the price
level, microeconomic foundations of
macro-behavior, macroeconometric
models, and basic open economy
macroeconomics. Prerequisites: ECO
3203, ECO 4417, or equivalents;
Calculus I; Calculus II recommended.

ECO 7207 Macroeconomic Theory II
(3). Alternative approaches to
macroeconomic theory. Business cycle
theories and theories of growth and
income distribution. Prerequisites: ECO
7115, ECO 7206, ECO 7405.

ECO 7216 Monetary Theory and Pollcy (3). Relationship of money supply and interest rate to economic stabilization. Consideration of federal reserve system, money market, and factors determining money supply and demand. Neo-Keynesian, Chicago, and radical policy views.

ECO 7236 Money, Banking, and Monetary Policy (3). Monetary theory and its application. Consideration of central banking in the U.S. and its relation to the international economy, money markets, and financial intermediaries. Survey of current policy views.

ECO 7305 History of Economic Thought (3). Exploration of the evolution of economic thought and analysis in the changing socio/historical, institutional and political setting in which it takes place. Prerequisite: Permission of instructor ECO 7315 Graduate Seminar in Economic Theory (3). Variable-topic graduate study group in theoretical problems. Open only to students with graduate standing.

ECO 7405 Mathematical Methods in Economic Analysis (3). Application of mathematical methods to economics. The topics and tools of mathematical economics are presented in a rigorous fashion within an economic context. Prerequisites: Calculus I, ECO 3101 and ECO 3203, or equivalents.

ECO 7424 Econometric Methods I (3). Practical and theoretical foundations of empirical economics. Knowledge in formulation, estimation, and evaluation of econometric models. Prerequisites: ECO 4410 or equivalent; Calculus I; Calculus II recommended.

ECO 7425 Econometric Methods II (3). A continuation of ECO 7424. Advanced single equation estimation, estimation of distributed lags, simultaneous equations, time series and models of qualitative choice. Prerequisites: ECO 7424 and MAS 3103 or equivalent.

ECO 7505 Public Finance (3). Partial and general equilibrium analysis of tax incidence efficiency, public goods, public pricing problems, the social rate of discount, and non-market decision making.

ECO 7617 Seminar In Economic History (3). Topics in economic history, exploration of the economic history literature on a selected theme, student presentations. Prerequisite: Permission of instructor for undergraduates.

ECO 7705 International Trade (3). Positive and normative aspects of international trade. Theories of comparative advantage, commercial policy, trade and income distribution. Prerequisites: Advanced Microeconomic Theory; Calculus.

ECO 7716 International Money (3). Theory of international monetary equilibrium. Problems of international payments and exchange rate control; their effect on international monetary problems. Analysis of short and long term monetary flows and macroeconomic adjustment. Prerequisites: Advanced Macroeconomics and Calculus.

ECO 7925 Advanced Workshop (3). Enables students to attend advanced workshop presentations and to present the results of their own research. Prerequisite. Completion of field examination requirements. ECO 7980 Dissertation (Ph.D.) (1-6). To be taken every semester for research on, and writing of Ph.D. dissertation by candidates for the Ph.D. Prerequisite: Completion of field examination requirements.

ECP 3123 Economics of Poverty (3). Poverty in the United States: its measurement and history. Theory of personal income distribution. Present and proposed policies to alleviate poverty.

ECP 3302 Introduction to Environmental Economics (3). Economic principles applied to environmental problems. Relationship of market and non-market forces to environmental quality. Development of tools for policy analysis.

ECP 3553 Health Systems Economics (3). Identification of health systems issues and basic instruments of health systems analysis including the market mechanism, insurance and cost-benefit analysis.

ECP 3613 Introduction to Urban Economica (3). Study of the urban environment, its characteristics and trends, Location behavior of firms and households. Urban financial problems, transportation, and housing.

ECP 4004 Seminar on Current Economic Topics (3). Faculty and student discussion of contemporary economic and social issues.

ECP 4203 Introduction to Labor Economics (3). Basic introduction to supply and demand for labor. Discusses labor markets in both historical and institutional context emphasizing why certain patterns have occurred and contemporary institutions developed. Prerequisite: ECO 3021.

ECP 4204 Theory of Labor Economics (3). Neo-classical theory of labor demand and labor supply, human capital theory and critiques. Current programs of human resource development and income maintenance are discussed. Prerequisite: ECO 3101.

ECP 4314 Land and Resource Economics (3). Availability, use, and control of land and other natural resources. Resource conservation, investment, and taxation. Environmental implications. Resource markets and pricing.

ECP 4403 Economic Policy for Industry (3). Governmental activities affecting business. Government regulation of business-its historical,

legal, and economic perspectives, including recent developments in the United States and abroad. Government assistance to business; proposed policies. Recommended preparation: ECO 3101.

ECP 4622 Regional Economic Growth Management (3). Combines natural resource economics and the economics of public decision-making to identify and evaluate costs and benefits of public policies for managing rapid population change. Prerequisites: ECO 3011 and ECO 3021.

ECP 6605 Urban and Regional Analysis (3). Application of economic analysis to urban growth and the urban-regional environment. Consideration of public services, transportation, ghetto problems, and urban organization. Analysis of environmental protection problems and policies. Recommended preparation: ECO 3101, ECO 3203 and ECP 3303.

ECP 6715 Macroeconomic Forecasting for Management (3). Basic macroeconomics concepts as they apply to decision making within the firm. Traditional models of income determination and forecasting analysis. Prerequisite: ECP 6704.

ECP 7205 Labor and Human
Resources (3). Empirical and theoretical
analysis of the factors determining
employment and earnings, recent
developments in the theory of labor
supply, critiques of neoclassical theory,
and current issues in public policy.
Prerequisite: Calculus.

ECP 7405 Industrial Organization (3). The organization of the industrial economy with particular emphasis as to the type of competition, the bases of monopoly power and the extent of monopoly power. Prerequisitos: Advanced Micro and Calculus.

ECP 7606 Urban and Regional Economics (3). The economics of urbanization processos, internal organization of cities, and regional settlement. Spatial growth models and spatial development planning Prerequisites: ECO 7115, ECO 5205, ECS 4013 or equivalent, ECO 6636

ECP 7636 Location Theory (3). Systematic exposition of urban and industrial location theory Spatial price theory and spatial competition Prerequisites: ECO 3101 or equivalent, Calculus I; Calculus II and ECO 7115 recommended.

ECP 7705 Managerial Economics (3). Basic microeconomic concepts as they

apply to decision making within the organization; supply and demand; market structure and market behavior in specific industries. Prerequisites: ECO 3021 and ECO 3011.

ECS 3003 Comparative Economic Systems (3). Analysis of alternative economic systems of industrialized and emerging nations. Emphasis on the comparative study of the capitalist, socialist, and communist economic systems of the modern world.

ECS 3402 The Political Economy of South America (3). An introduction to the political economy of the Latin American nations. Designed as a basis course to give the student an overview of the political economy of the nations with which we share this hemisphere.

ECS 3440 Economics of Central America (3), Survey of recent economic history of Central American countries, dealing with the institutional background and the structure of current economic activities. Special attention devoted to current problems of economic growth and social transformation.

ECS 4013 Introduction to Economic Development (3). Analysis of institutional and structural factors which determine the course of economic progress in developing countries. Characteristics of less developed areas: agriculture, investment, technology, population, international trade, economic integration.

ECS 4024 Economic Planning (3). Analysis of planning methods in capitalist and socialist economies. Evaluation of macro and micro economic planning tools (input-outpu)) and programming techniques. Theory and practice of economic development planning of agriculture, industrialization, toreign trade, and manpower.

ECS 4403 The Latin American Economies (3). Survey of economic status and problems of the Latin American nations, with special omphasis on the larger countries. Attention is given to the role of foreign intervention and dependence, and to different attempts at economic integration.

ECS 4404 Economic Integration /E Latin America (3). Analysis of the methods, meaning and implications of economics in Latin America. Designed to enable the student to appreciate the trend toward regionalism and economic cooperation. Prerequisito. ECO 3021.

ECS 4430 The Economic Development of Cubs /E Past and Present (3). Survey of the Cuban economy under capitalist and Marxist ideologies. Emphasis on the transition stage and on current policies of economic and social change.

ECS 4432 Economic Integration /E Caribbean (3). Analysis of the methods, meaning, and implications of economic integration in the Caribbean. Designed to enable the student to appreciate the trend toward regionalism and economic cooperation.

ECS 4433 Economics of the Caribbean (3). Survey of the economic systems of the major British, French, Dutch, and Spanish areas in the Caribbean. Special attention devoted to current problems of economic growth and social transformation.

ECS 5005 Comparative Economic Systems (3). A critical evaluation of the design, goals, and achievements of economic policies in capitalist and socialist economies. Prerequisite: Permission of instructor for undergraduates.

ECS 5025 Economic Problems of Emerging Nations (3). Specific economic problems of emerging nations and national groupings. Basic approaches to economic development; major proposals for accelerating development. Role of planning. Trade, aid and economic integration.

ECS 6026 Development Economics: Plenning and Policy (3) Planning and policy making in developing economies Economy/wide planning models; project appraisal; linancial, stabilization and trade policies. Prerequisites: ECO 7115, ECO 7116, ECO 5025, ECO 7405.

ECS 6436 The Economics of Caribbean Migration (3). The course examines the economic causes and consequences of Caribbean immigration to the United States. Special emphasis on the effects of Caribbean migration on the United States economy.

ECS 7015 Development Economics: Theory (3) Analytical approaches to economic development Analysis of macro models, specific resources and sectors, and trade and income distributional problems in relation to developing countries. Prerequisites ECO 3101 and ECO 3203 or equivalents

ECS 7435 Economics of the Caribbean (3). Macroeconomic assessment, income distribution, employment and migration, industrial and agricultural development international trade, multinational and integration attempts. Prerequisite: Permission of instructor.

ECS 7445 Economics of Central America (3). Recent economic events in region dealing with institutional background and structure of current economic activities. Special emphasis on problems of growth, social transformation and economic integration, Prerequisitie: Permission of Instructor.

ECS 7405 Economics of Latin America (3). Dependence, population explosion, urban migration, agricultural reform, industrialization and import substitution, common markets. Prerequisite: Permission of instructor for undergraduates.

English

Mary Jane Elkins, Associate Professor and Chairperson Harry T. Antrim, Professor St. George Tucker Arnold, Associate

Professor
Joanne Bakula, Instructor
Lynne Barrett, Associate Professor
Lynn M. Berk, Associate Professor
Gisela Casines, Assistant Professor
Maneck Daruwala, Associate Professor
Richard A. Dwyer, Professor and Vice

Provost
Peggy Endel, Associate Professor
Mary Free, Associate Professor
Virginia Gathercole, Associate

Professor
James Hall, Professor
Tometro Hopkins, Instructor
Kenneth Johnson, Associate
Professor

Susan Lavin, Instructor
Kathteen McCormack, Associate
Professor
Carmela Pinto McIntire, Associate

Professor

Asher Milbauer, Associate Professor Robert Ratner, Instructor Merl-Jane Rochelson, Assistant Professor

Richard Schwartz, Associate Professor Ellen Sprechman, Instructor Lester Standiford, Associate Professor Richard Sugg, Professor Donald Watson, Professor Butler H. Waugh, Professor Barbara Weltz, Instructor

Degree: Bachelor of Arts

Lower Division Requirements Required Courses:

1. An introduction to literature. This requirement may be fulfilled at the University by taking ENG 2012 Approaches to Literature.

2. A two-semester survey of British

or American Literature. This requirement can be fulfilled at the University. (Completion of these courses will be counted toward the requirement of 30 semester hours listed below.)

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program. Remark: The prospective secondary school teacher should take the Foundations of Education courses in the lower division. Students interested in teacher certification should contact the College of Education at 554-2721.

Upper Division Program

Required Cou	urses: (30)	
LIN 3013	Introduction to	
	Linguistics	3
	or	
LIN 4341	Modern Englis	h
	Grammar	
ENL 4320	Shakespeare:	
	Histories	3
	or	
ENL 4321	Shakespeare:	Comedies
	or	
ENL 4322	Shakespeare:	Tragedies

A two-semester survey of British or American Literature if not fulfilled in the lower division 6 Electives in writing, literature, and linguistics: 18

Electives: The English Department recognizes a continuing obligation to insure that its majors write well. The Chairperson may require any English major to take the appropriate composition course. An English major may choose to take a general program of English studies or may select one of the Department's three areas of emphasis: literature, language and limplestics, or creative writing. Majors should choose their English courses and electives in consultation with their advisors, especially upon entering the program.

Minor

To earn a minor in English, students must complete a two-semester survey of British or American Literature, plus nine semester hours of upper-division English electives.

Students in the Teacher Preparation Program carry two majors - English and English Education. They must request admission to both programs. English majors may also enroll in the Linguistics, American Studies, Ethnic Studies, and Women's Studies Certificate programs.

(See Modern Language listings for additional Linguistics courses.)

Master of Arts in Linguistics

See the listing under Linguistics

Master of Fine Arts in Creative Writing

Studio/Academic 48 Semester Hours required, including a

minimum:

Literature	15
Writing Workshop	18
Form and Theory	3
Thesis	6

The Master of Fine Arts in Creative Writing is the terminal degree for the practicing writer, designed to qualify the recipient to teach creative writing on the college and university level. Graduate workshops include the areas of fiction, screenplay, creative non-fiction, and poetry; the program also places great emphasis upon the preparation and completion of a booklength creative thesis. Applicants must have a baccalaureate degree, and, in most cases, a 3.0 GPA or a combined GRE score of 1000; however, the most important criterion for admission is the quality of the applicant's writing sample in poetry, fiction or screenplay.

Course Descriptions

Definition of Prefixes

AML-American Literature; CRW-Creative Writing; ENC-English Composition; ENG-English-General; ENL-English Literature; HUM-Humanities; LIN-Linguistics; LIT-Literature; MMC-Mass Media Communication

AML 3011 Survey of American Literature I (3). Students read and discuss major American works written between 1620 and 1865. Works will be considered in an historical context.

AML 3020 Survey of American Literature II (3). Students will read and discuss major American works written between 1865 and the present. Works will be examined in an historical context.

AML 3271 Afro-American Literature (3), Study of Afro-American literature from Phyllis Wheatly to James Baldwin. May be repeated.

AML 4213 Studies in Colonial and Early American Literature (3). Students read, discuss, and write about literature of the Colonial and Early American periods from the time of the Puritans through the period of the Early Republic.

AML 4225 Studies in Nineteenth-Century American Literature (3). Students read, discuss, and write about literature of 19th Century America including works of early Romanticism, Transcendentalism, and the rise of realism.

AML 4245 Modernlam and Poat-Modernlam in American Literature (3). The course provides working definitions of modernism and post-modernism and will consider how the writers of the twentieth century use those outlooks while addressing political, social, and personal issues.

AML 4300 Major American Writers (3). Each section of this course will consider the works of one, two, or three major American writers. The writers studied in this course will change from semester to semester. The course may be repeated for credit.

AML 4503 Periods in American Literature (3). Individual sections will read and discuss works in the context of such historical settings as the colonial, federal, antebellum, reconstruction, or modern periods of the American past. May be repeated.

AML 5305 Major American Literery Figures (3). Each section will consider the lifework of several authors such as Hawthorne, Melville, Whitman, Twain, James, Faulkner, Mailer, Wright, Baldwin, May be repeated

AML 5505 Periods in American Literature (3). The literature and criticism regarding one specified period of American Literature, such as Colonial, Federal, Transcendental, Antebellum, and Twentieth Century May be repeated with change of period Prerequisite: Permission of instructor

CRW 2001 introduction to Creative Writing (3). Beginning course designed to acquaint students with elementary critical vocabulary and writing skills necessary for the writing of poems and short fiction. Students may also be required to read and discuss published writing. Prerequisite: ENC 1101 and ENC 1102 or equivalent.

CRW 3111 Narrative Techniques (3).
Analysis of and exercises in the elements of fiction: point of view, conflict, characterization, tone. Students will do various short assignments and one short story. Reading of published fiction will also be required. Prerequisite: CRW 2001.

CRW 3310 Poetic Techniques (3).
Analysis of and exercises in pootic techniques. Students will write poems in which they employ one or more technical skills. Reading and discussion of

published poems will be required. Prerequisite: CRW 2001.

CRW 4110 Writing Fiction (5). An intermediate course in writing fiction. Prerequisite: CRW 3111

CRW 4310 Writing Poetry (5). An intermediate course in writing poetry. Prerequisite: CRW 3310

CRW 4930 Special Topics in Creative Writing (1-5). A course designed to give students an opportunity to pursue special studies in aspects of creative writing not otherwise offered. May be repeated. Prerequisite: CRW 2001.

CRW 4931 Special Topics in Creative Writing (1-5). Gives students an opportunity to pursue special studies in aspects of creative writing not otherwise offered. May be repeated. Pererequisites: CRW 2001 and three hours of CRW on the 3000/4000 level.

CRW 4940 Independent Study In Creative Writing (3). Development and completion of an independent project in creative writing undertaken with the consent of the instructor. Prerequisite: CRW 2001.

CRW 5130 Advanced FlctIon Workshop (5). Practice in the techniques and analysis of liction through the reading, discussion and revision of student manuscripts in a workshop setting. May be repeated Prerequisite: 9 hours undergraduate CRW coursework.

CRW 5331 Advanced Poetry Workshop (5). Practice in the techniques and analysis of poetry through the reading, discussion and revision of student manuscripts in a workshop setting. May be repeated. Prerequisite: 9 hours undergraduate CRW coursework.

CRW 5620 Advanced Screenwriting Workshop (5). Practice in the techniques and analysis of screenwriting through the reading, discussion, and rovision of student manuscripts in a workshop setting May be repeated Prerequisite: 9 hours undergraduate CRW coursework

CRW 5934 Special Topics in Creative Writing (1-5). A course designed to give students an opportunity to pursue special studies in aspects of creative writing not otherwise offered. May be repeated.

CRW 5935 Special Topics in Creative Writing (1-5), Gives students an opportunity to pursue special studies in

aspects of creative writing not otherwise offered. May be repeated. Prerequisites: CRW 2001 and three hours of CRW on the 3000/4000 level

CRW 6971 Creative Writing Thesis (3). Research and writing for the creative writing thesis. May be repeated. Prerequisite: 12 hours graduate CRW coursework.

ENC 1101 Freshman Composition (3). Students will be introduced to the principles and process of expository, persuasive, and reflective writing. The first of a two-semester freshman composition sequence.

ENC 1102 Techniquea of Interpretation (3). A continuation of ENC 1101. Develops an analytical/aesthetic sensitivity to the writings of others and further explores the techniques of composition and library research.

ENC 1137 Essay Writing (3). A course in writing short descriptive, analytic, and argumentative essays. Does not lulfill core curriculum requirement. Students who have completed ENC 1101 or ENC 1102, or both, cannot receive credit for this course.

ENC 2001 Modes of Inquiry (3). A research and report writing course. A final research project is required. Basic bibliographical tools, library use, and technical and scientific reporting will be the main subject matter. There will also be an emphasis on style, structure, and tone in a variety of research modes.

ENC 2301 Expository Writing (3) An advanced composition course in the techniques of exposition, argumentation, and persuasion

ENC 3201 Business Letter and Reports (3). Intensive instruction and practice in the organization, content, and style of business letters of all kinds: special correspondence formats (bid proposals, customer relations), memoranda, teasibility reports, speeches, and group conference reports

ENC 3210 Technical Writing (3). Effective presentation of technical and somi-technical information: technical description, information gathering, general technical reports, organization and development of information, process communication

ENC 3211 Report and Technical Writing (3) For business, professional, and scientific students needing practice in collecting, organizing, interpreting, and presenting factual material

ENC 3311 Advanced Writing and Research (3). Provides instruction in the concepts and methods of critical response and argumentation, and in the formulation, analysis, and presentation of original research in extended academic papers. Prerequisites: ENC 1101, ENC 1102 or equivalent.

ENC 4240 Report Writing (3). Instruction and practice in writing reports for practical purposes. Collecting, organizing, and interpreting facts, then writing up findings in report form and style. Includes recommendation reports, use of graphical elements, writing manuals and instructions, physical research reports, feasibility reports, progress reports, other specialized report formats. Prerequisite: ENC 3200 or ENC 3210.

ENC 4241 Scientific Writing (3). Develops skills necessary to write laboratory reports, scientific proposals, articles, research reports, progress reports, and seminar presentations.

ENC 4930 Special Topics in Composition (3). Allows students to refine nonfiction writing skills in a variety of genres and roles. May be repeated. Prerequisites: ENC 1101, ENC 1102 or equivalent.

ENG 2012 Approaches to Literature (3). In this course, students will study the process of analyzing the meaning and artistry of literary texts. They will read and interpret representative poems, short stories, and plays.

ENG 2100 Introduction to Film (3). This course will introduce students to the basic artistic and compositional elements of film and the analysis of the relationship between technical and aesthetic aspects of film. Prerequisite: ENC 1101.

ENG 3138 The Movies (3). Viewing and discussion of films, with attention to cinematic ways of story-telling and to the popular film as an expression of cultural values. May be retaken for credit with change of content.

ENG 3949 Cooperative Education In English (1-3). A student majoring in English may spend several semesters fully employed in industry or government in a capacity relating to the major. Prerequisite: Permission of Cooperative Education Program and major department.

ENG 4022 Rhetoric and Poetics (3). Ancient and modern theory and practice in discussing the formal properties of elevated language. ENG 4121 History of the Film (3). Discussion, with examples, of the development of cinematic art, from its European and American beginnings to its place as a major world art form.

ENG 4132 Studies in the Film (3). Intensive examination of the work of a particular nation, group, or director. May also explore various film genres, e.g., documentary, horror, the Western. With change of content, may be retaken for credit.

ENG 4906 Independent Study (VAR). Individual conferences, assigned readings, and reports on independent investigations, with the consent of the instructor.

ENG 4936 Honora Seminar (3). Designed specifically for honors students and other superior, highly motivated students. Seminar topics will vary from semester to semester.

ENG 4949 Cooperative Education In English (1-3). A student majoring in English may spend one or two semesters fully employed in industry or government in a capacity relating to the major. Prerequisite: Permission of Cooperative Education Program and major department.

ENG 5009 Literary Criticism and Scholarship (3). Techniques and goals of humanistic research, bibliography, and critical commentary.

ENG 5018 Practical Criticism (3). Applies various critical theories-e.g. the formalistic, historical, structural, archetypal, sociological, etc.-to specific literary productions.

ENG 5058 Form and Theory of Contemporary Literature (3). Various approaches and theories of practice in the major genres of imaginative writing, including development and articulation of the creative esthetic. May be repeated. Prerequisite: Permission of instructor.

ENG 5907 Independent Study (VAR). Individual conferences, assigned readings, reports on independent investigations, with the consent of the Chairperson.

ENG 6909 Independent Study (VAR). Individual conferences, assigned readings, reports on independent investigations, with the consent of the Chairperson.

ENL 3012 Survey of British Literature I (3). Students will read and discuss major British works written from the Old

English period through 1750. Works will be examined within an historical context.

ENL 3022 Survey of British Literature II (3). Students will read and discuss major British works written between 1750 and the present. The works will be examined in an historical context.

ENL 3122 Nineteenth-Century British Novel (3). Students analyze a selection of novels from the British Nineteenth Century in an historical context.

ENL 4210 Studies In Medieval Literature (3). Students will read, discuss and write about works of medieval English literature from the time of Beowulf to that of Chaucer.

ENL 4220 Studies in Renaissance Literature (3). Students will read, discuss, and write about works of the English Renaissance excluding William Shakespeare.

ENL 4230 Studies in Restoration and 18th-Century Literature (3). An in-depth study of the major ligures in English Literature from 1660 to 1800, a period of transition between the Renaissance and modern times. Some of the writers who will be studied are Dryden, Pope, Swift, Jonson, and Fielding.

ENL 4260 Studles In 19th-Century British Literature (3), Students will read, discuss, and write about literary works produced by British Romantic and Victorian writers between the Age of Wordsworth and the death of Queen Victoria.

ENL 4273 Studies in Modern British Literature (3). This course focuses on the literature of the 20th Century, limiting itself to British writers, but including the various genres of the modern and post modern periods.

ENL 4303 Major British Writers (3). Each section will consider the lifework of an author such as Chaucer, Spenser, Milton, Pope, Wordsworth, Dickens, Browning, Joyce, or others. May be repeated.

ENL 4320 Shakespeare: Histories (3). Reading and informal dramatic interpretation of representative plays.

ENL 4321 Shakespaare: Comedies (3). Reading and informal dramatic interpretation of representative plays.

ENL 4322 Shakespeare: Tragedles (3). Reading and informal dramatic interpretation of representative plays.

ENL 4503 Periods in English Literature (3), Individual sections will read a group of literary works from one specified period of English literature, such as the Medieval, Renaissance, Victorian, twentieth-century and contemporary periods. May be repeated with change of period.

ENL 5220 Major British Literary Flgures (3). Each section will consider the lifework of an author such as Chaucer, Spenser, Milton, Pope, Wordsworth, Dickens, Browning, Joyce, or others. May be repeated.

ENL 5505 Periods in English Literature (3). The literature and criticism regarding one specified period of English Literature, such as Medieval, Renaissance, Victorian, Twentieth Century, and Contemporary. May be repeated with change of period. Prerequisite: Permission of instructor.

LIN 2000 Introduction to Language (3). The study of the nature of human language, its origins, and its relation to thinking behavior, and culture. An examination of the similarities and differences between spoken human languages, animal languages, and nonverbal communication (including sign language); of language variation between dialects and between different historical stages of a language; and of writing systems.

LIN 3013 Introduction to General Linguistics (3). Study of the sounds, vocabulary, and sentence patterns of standard modern English. Other topics include meaning, social and regional dialects, language change, and style.

LIN 3670 Grammetical Usage (3). The study of formal, traditional usage of English grammar and mechanics. Prerequisites: ENC 1101 and ENC 1102.

LIN 4142 Historical Linguistics (3) The study of linguistic methodology for determining historical and genetic relationships among languages. Prerequisite: Introductory course in Linguistics or permission of instructor

LIN 4221 General Phonology (3). The study of phonological processes in language and linguistic methodology for phonological analysis Prerequisite: Introductory course in Linguistics or permission of instructor.

LIN 4330 General Morphology and Syntax (3). The study of linguistic methodology for determining the morphological and syntactic structures of languages. Prerequisite, Introductory course in Linguistics or permission of instructor. LIN 4341 Modern English Grammar (3). Practical study of syntax.

LIN 4403 Applied Linguistics (3). Linguistics in the classroom. English as a second language. Stylistics. Dialects. Prerequisite: LIN 3013.

LIN 4612 Black English (3). This course is a linguistic approach to the characteristics and functions of Black English and the current social controversies surrounding it.

LIN 4651 Women and Lenguege (3). Examines the evidence on a variety of questions regarding women and language, including women's speech in English and other languages, "sexist language", and the relationship between language and societal attitudes towards women.

LIN 4801 Semantics (3). The study of the semantic structure of languages. The structures underlying the meanings of words and underlying syntactic structures. Prerequisite: Introductory course in Linguistics or permission of instructor.

LIN 4905 Independent Study (VAR). This course is designed for students who wish to pursue specialized topics in advanced Linguistics: phonetics, phonology, morphology, syntax, semantics, psycholinguistics, historical linguistics, or language contact. Prerequisite: Introductory course in Linguistics or permission of instructor.

LIN 5045 Introduction to Linguistics (3). Introduction to Linguistic theory and analysis, with special emphasis on the major components of lenguages and modern approaches to their analysis.

LIN 5107 History of the English Language (3). Study of the devolopment of the grammar and vocabulary represented in samples of the English language from the 8th century to modern times Prerequisite: LIN 3013 or permission of instructor

LIN 5146 Historical and Comparative Linguistics (3). The study of linguistic methodology for determining historical and genetic relationships among languages. Diachronic syntax and its methodology will be included. The relevance of historical comparative linguistics to similar processes found in language acquisition and to sociolinguistics will be studied. Prerequisito LIN 5206, Phonotics.

LIN 5206 Phonetics (3). The study of the articulatory mechanisms used in producing speech sounds and of their acoustic properties. Ear training in the phonetic transcription of speech sounds used in the world's languages.

LIN 5331 General Morphology and Syntax (3). The study of linguistic methodology for determining the morphological and syntactic structures of languages. Distinct theoretical approaches to analysis will be emphasized. The student will study recent developments in linguistics that bear on language-universal and language-specific aspects of morphology and syntax. Prerequisite: Introductory course in Linguistics or permission of instructor.

LIN 5382 English Syntex (3). This course will focus on syntactic analysis of English. Although the course itself is non-theoretical, it uses a variety of underlying theoretical approaches to train students in syntactic analysis.

LIN 5405 Applied Linguistics: Contrastive Analysis (3). Participants will learn to contrast the structures of languages with respect to each of their major subsystems: their phonetic characteristics, and their phonological, morphological, syntactic, and semantic subsystems.

LIN 5715 Language Acquisition (3). The study of the processes underlying normal first-language acquisition. The focus is on the development of the subsystems of language (i.e., the phonological, morphological, syntactic, and semantic subsystems) in the child's growing command of his native language.

LIN 5732 Error Analysis (3). This course focuses on the nature of linguistic errors produced by speakers in their native languages. Students will read research on errors produced by adult native spoakers of a language, on first-language errors of children, and on errors made by persons acquiring a second language. Prerequisite: LIN 3013 or LIN 3010.

LIN 6222 General Phonology (3). The study of phonological process in languages and linguistic methodology for phonological analysis Emphasis will be placed on recent theoretical questions concerning such issues as the abstractness of underlying forms, the naturalness of processes, and the relevance of markedness to a phonological description. Prerequisite: LIN 5206, Phonetics.

LIN 6342 Advanced Syntax (3). This course will expose students to the theoretical models on which much

contemporary work in English grammar is based. Students will read works on selected topics such as structural linguistics, transformational grammar, and case grammar. Specific content may change from semester to semester. May be retaken for credit when content changes. Prerequisite: LIN 5382, English Syntax.

LIN 6378 Structure of a Non-Indo-European Language (3). An in-depth study of the structure of a non-Indo-European language. The particular language to be studied will be varied from semester to semester. Course may be repeated. Prerequisites: LIN 5013, LIN 5206, LIN 5222, and a course in syntax.

LIN 6602 Language Contect (3). A study of the language changes that occur when two or more languages come into contact with one another. The course will also examine the characteristics of the individuals and communities involved in such contact.

LIN 6805 Semantics (3). The study of linguistic semantic language-universal and language-specific properties of the semantic structure of words in sentences will be considered. Recent debate and theoretical aspects, including those touching on the nature of word meaning, presuppositional-assertional grammar, and Speech-Act theory, will be read and discussed. Prerequisite: Introductory course in Linguistics or permission of instructor.

LIN 6905 Independent Study (VAR), This course is designed for students who wish to pursue specialized topics in advanced Linguistics: phonetics, phonology, morphology, syntax, semantics, psycholinguistics, historical linguistics, or language contact. Prerequisite: Introductory course in Linguistics or permission of instructor.

LIN 6937 Seminar in Linguistics (3).
Topics vary each semester. Prerequisite:
A previous course in the same sub-area
of Linguistics.

LIN 6971 Thesis (1-6). Prerequisite: Completion of all other requirements for the M.A. degree in Linguistics.

LIT 2010 Introduction to Flction (3). This course offers an introduction to the basic elements of prose fiction: symbolism, plot, imagery, structure, characterization, style, point of view. Prerequisite: ENC 1101.

LIT 2030 Introduction to Poetry (3). This course offers an introduction to the basic elements of poetry: imagery,

figurative language, diction, style, tone, prosody. Prerequisite: ENC 1101.

LIT 2040 Introduction to Drama (3). This course will introduce the student to the basic elements of drama and its various forms, modes, and techniques. Students will read 10-12 plays by representative English, American, and European authors. Prerequisite: ENC 1101.

LIT 2930 Special Topics (3). This course is designed to give students an opportunity to pursue special studies not otherwise offered. May be repeated.

LIT 3110 World Literature I (3). This course surveys the literature of the Western world from the classical period through and including the Renaissance. It gives attention to the themes and world views these works embody, as well as to their artistry.

LIT 3120 World Literature II (3). This course surveys the literature of the Western World from the 17th century to the present. It gives attention to the themes and world views these works embody, as well as to their artistry.

LIT 3200 Themes In Literature (3). Individual sections will read and discuss works relating to topics of current and enduring interest. Discussion of literature as it reflects the identities of men and women: their places in families in past, present, and luture societies, in the natural world, and the cosmic order. May be repeated.

LIT 3331 Classics of Children's Literature (3). An examination of literary texts that form part of the imaginative experience of children, as well as part of our literary heritage.

LIT 3383 Women in Literature (3). Students will examine the images of women created by European and American writers. The course will also explore the roles, historical and contemporary, of women writers.

LIT 3702 Major Literary Modes (3). Individual sections will read and discuss the literary expression of heroic, tragic, comic, satiric, mythic, realistic, or others lormalized views of human existence. May be repeated.

LIT 3930 Special Topics (3). A course designed to give students an opportunity to pursue special studies not otherwise offered.

LIT 4001 Major Literary Genres (3). Individual sections will read and discuss the form and development of novels,

drama, poetry, short fiction, or such special forms as biographies, folksongs and tales, or essays, among other genres. May be repeated.

LIT 4188 Regional Literature in English (3). Individual sections will discuss English writing in Ireland, Scotland, Wales, Canada, the Caribbean, India, sub-Saharan Africa, and Oceania, as well as distinctive regions in England and America. May be repeated.

LIT 4403 Literature Among the Arts and Sciences (3). Individual sections will relate the study of literature to other disciplines in the humanities, fine arts, the social and natural sciences. May be repeated.

LIT 4930 Special Topics (3). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. May be repeated.

LIT 5363 Literary Movements (3). Individual sections will study the authors, works, and audiences involved in such phenomena as Humanism, Mannerism, Romanticism, Symbolism, the Harlem Renaissance, and others. May be repeated.

LIT 5934 Special Topics (3). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. May be repeated.

LIT 6934 Special Topics (3). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. May be repeated.

MMC 4607 Structure and Function of Mass Media (3). Will include the study of such topics as: mass communication and social order, classic studies in mass communication, propaganda.

Environmental Studies

John Parker, Director, Chemistry Jerry Brown, Sociology/Anthropology Ken Boodhoo, International Relations BIII Cooper, Drinking Water Research Center

George Dalrymple, Biological Sciences

Religious Studies

Kelsey Downum, Biological Sciences Grenville Draper, Geology Marla Esplno, Economics Kenneth Gordon, Biological Sciences Joel Gottlleb, Political Science Arthur Herrlott, Chemistry James Huchingson, Philosophy and Farrokh Jhabvala, International

Relations Suzanne Koptur, Biological Sciences Ronald Jones, Biological Sciences David Lee, Biological Sciences Zaida Morales-Martinez, Chemistry Florentin Maurraase, Geology Howard Moore, Chemistry Steve Oberbauer, Biological Sciences Thomas Pllake, Biological Sciences Jim Rotton, Psychology William Vickers, Sociology/ Anthropology

Christopher Warren, Political Science

This is an interdisciplinary program involving nine departments in the College: Biological Sciences, Chemistry, Economics, Geology, International Relations, Philosophy and Religious Studies, Political Science, Psychology, and Sociology/Anthropology. The program prepares students to work in professions with an environmental locus. The Bachelor of Science degree program emphasizes the chemical and ecological aspects of environmental analysis. The Bachelor of Arts degree is broader, with an emphasis on the political, social and economic aspects of environmental issues.

Degree: Bachelor of Science

Lower Division Preparation Required Courses: Equivalent of eight semester hours of both general biology and general chemistry: three semester hours of algebra and trigonometry.

Recommended Courses: Energy and the Natural Environment, General Physics.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Lower or Upper Division Regulrements:

ECO 3021	Economics, Man and	
	Society - Micro	3
STA 3122	Introduction to	
	Statistics	3
PHY 2023	Survey of Physics	3
	or	
GLY 1010,		
GLY 1010L	Physical Geology	
	plus	4
EVR 3010	Energy Flow in Natural	
	and Man-made	
	Systems	3
COP 2172	Programming in	
	BASIC	3
	or	
CGS 3420	FORTRAN for Engineer	rs

Upper Division Program: (60 semester

hours)

Recommende		_
ENC 3210	Technical Writing	3
POS 3044	U.S. Government and	
	Politics	3
Regulred Cou	rses:	
EVŘ 4211	Water Resources	3
EVR 4231	Air Resources	3
EVR 4311	Energy Resources	3
ECP 3302	Introduction to	-
	Environmental	
	Economics	3
PUP 4203	Environmental Politics	-
	and Policy	3
CHM 3120,	,	
CHM 3120L	Quantitative Analysis	5
CHM 3200.	,	-
CHM 3200L	Survey of	
	Organic Chemistry	4
	or	•
CHM 3210, CH	M 3210L, CHM 3211.	
	anic Chemistry I and II	9
OTHER SETTL ON	game onemistry rand in	9

Students are urged to develop an area of specialization of 12 to 15 credits or a minor in consultation with an advisor. Examples are: Water, Air or Energy Resources. Biology; Chemistry; Computer Science; Geology; Ecological Analysis: 43 semester hours Electives 17 semester hours Total 60 semester hours

Environmental

Independent Study

Colloquium

Degree: Bachelor of Arts

Lower Division Requirements

PCB 3043, PCB 3043L Ecology

EVR 4920

EVR 4905

Recommended Courses: Natural History of South Florida; Energy and the Natural Environment, College Algebra.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the pregram.

Upper Division Preparation: (60 semester hours)

Rea	ulr	ed	Co	Urse	,

vedou en con	ae.	
ECÓ 3021	Economics, Man, and Society - Micro	3

Upper	Division	Prograi
Requir	ed Cour	ses:

madau en cor	JI SCS.	
ANT 3403	Cultural Ecology	3
ECP 3302	Introduction to	
	Environmental	
	Economics	3
EVR 3010	Energy Flow in	
	Natural and	
	Man-made Systems	3
EVR 3011	Environmental	
	Resources and	
	Pollution	3
EVR 3013C	Ecology of South	
	Florida	4

College	of	Arts	and	Sciences	/	7	7

EVR 4905	Independent Study or	
	Community Project	3
EVR 4920	Environmental	
	Colloquium	3
PUP 4203	Environmental Politics	
	and Policies	3
REL 3492	Man and Nature	3
	31	

Area of Specialization Courses: The student must take at least nine additional credits in an approved area of specialization, such as energy and resource management, human ecology. international/political issues, urban/environmental planning and policy, geography or ecology. Minors are encouraged.

40 semester hours Electives 20 semester hours Total 60 semester hours

Cooperative Education

4

3

Students seeking the baccalaureate degree in environmental studies may also take part in the Cooperative Education Program conducted in conjunction with the Department of Cooperative Education in the Division of Student Affairs. The student spends one or two semesters fully employed in industry or a governmental agency For further information consult the Department of Cooperative Education.

Environmental Internships

Students interested in job-related academic internships should contact their advisor. Two internships are regularly available at the Big Cypress Nature Center as Naturalist Assistants (Naples, Fla.). Details on compensation, benefits, and academic credit can be obtained from Dr. J. Gottlieb (Political Science).

Course Descriptions

(Course descriptions are also found in catalog sections of all participating departments. For assistance see an advisor.)

Definition of Prefixes

EVR-Environmental Studies

EVR 3010 Energy Flow In Natural and Man-made Systems (3). A course for non-science majors, emphasizing the study of energy flow and energy resources in natural ecosystems. agriculture and the global foed and population crises, and land use

EVR 3011 Environmental Resources and Pollution (3). A course for non-

science majors, emphasizing air and water pollution, water resources, earth resources, solid waste disposal, noise pollution, and weather patterns

EVR 3011L Environmental Science: Pollution Lab (1). Laboratory and field analyses of topics and concepts covered in EVR 3011. Corequisite: EVR 3011.

EVR 3013C Ecology of South FlorIda (4). A course for non-science majors, offering an introduction to the ecology of South Florida through lectures and a series of field trips into several unique ecosystems, such as the Everglades, hardwood hammocks, and coastal regions. The course also deals with natural resource conservation, wildlife management, endangered species, and wilderness issues.

EVR 3931 Topics in Environmental Studies (3). An intensive analysis of several current environmental topics. Recommended for primary and secondary school teachers.

EVR 3949/ EVR 4949 Cooperative Education in Environmental Studies (3). One semester of full-time supervised work in an outside laboratory taking part in the University Co-op Program. Limited to students admitted to the Co-op Program. A written report and supervisor evaluations will be required of each student.

EVR 4021 Survey of Environmental Problems I (3). An in-depth study of four or five environmental problems of current interest and continuing significance. The course requires competency at the college introductory level in at least three of the following: biology, chemistry, geology, physics.

EVR 4022 Survey of Environmental Problems II (3). A continuation of EVR 4021.

EVR 4211 Water Resources (3). A seminar dealing with various aspects of water use, water pollution problems, chemistry and ecology of South Florida's waters. Ecology is recommended. Prerequisites: CHM 1045 and CHM 1046 or equivalent and general biology.

EVR 4231 Air Resources (3). Common air pollutants - their sources and methods of control. Different legislative and administrative approaches will be studied. Prerequisite: CHM 1045 and CHM 1046 or equivalent.

EVR 4311 Energy Resources (3). Seminar dealing with power and energy production in modern society, fundamental energy relationships of industrial and domestic processes. Prerequisite: EVR 3010 or PHY 2023 or equivalent. EVR 4905 Research and Independent Study (Var) The student works with a professor on a research project.

EVR 4920 Environmental Colloquium (1). An exploration of contemporary ideas on environmental issues. The course brings together faculty and students in a seminar format. Each week a subject will be presented by a faculty member or student and an open discussion will follow.

EVR 5061 South FlorIda Ecology: Field Studies (3). An introduction to the ecology of South Florida through a series of field trips into several unique ecosystems, such as the Everglades, hardwood hammocks, and coastal regions. No science background required.

EVR 5141 Environmentel Nuclear Chemistry (3). Nuclear reactions and the nature of radioactivity. Properties and uses of radioactive isotopes, fission, and fusion. Introduction to reactor technology. Consent of instructor required.

EVR 5236 Air Pollution Dynamics (3). A course designed to give an understanding of the lates of atmospheric pollutants. Scavenging processes in the atmosphere; radiation, residence times, chemical reactions, global transport process, point source dispersion and modeling calculations. Pereguisite: EVS 3360 or EVR 4231.

EVR 5315 Energy Resources and Systems Analysis (3). Detailed analysis of energy flows in natural and man-made systems. Energy systems analysis. Energy use patterns. Conventional and alternate sources of energy.

EVR 5907 Research and Independent Study (VAR). The student works with a professor on a research project. Variable credit.

EVR 5935 Special Topics (VAR). A graduate-level course dealing with selected environmental topics. The content will not necessarily be the same each time the course is offered.

EVR 5936 Topics in Environmental Studies (3). An analysis of several current environmental topics. Recommended for primary and secondary school teachers.

Geology

Florentin Maurrasse, Professor and Chairperson Timothy Bralower, Assistant Professor Bradford Clement, Assistant Professor Charles Connor, Assistant Professor Grenville Draper, Associate Professor Rosemary Hickey-Vargas, Assistant Professor

Gautam Sen, Associate Professor Edward Robinson, Visiting Lecturer

The Geology Program is designed to prepare students for careers in research, teaching, and other governmental or private agencies. The main objectives of the Department is to contribute to the search for a better understanding of local geological problems, focusing especially on those related to ground water supply; and to conduct research on the geology of the Caribbean region. Well-equipped laboratories expose students to the major techniques of the sciences. The program offers both a rigorous B.S. degree in Geology and a broader-based interdisciplinary B.A. in Geology. Grades of 'D' will not be accepted for required courses in either program option.

Degree: Bachelor of Science

Lower Division Preparation

Required Courses: Four semester hours of general biology (BSC 1010, BSC 1010, DSC 1010, DSC 1010); four semester hours of physical geology or equivalent (GLY 1010, GLY 1010L); four semester hours of historical geology (GLY 1100, GLY 1100L); six semester hours of trigonometry and analytical geometry (MAC 2132).

To qualify lor admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Lower or Upper Division Preparation: At least six semester hours of differential and integral calculus (MAC 3311, MAC 3312); at least eight semester hours of general chemistry (CHM 1045, CHM 1045, CHM 1046L, including laboratory); at least eight semester hours of general physics with calculus (PHY 3048, PHY 3048L, PHY 3049L, including laboratory) or equivalent.

Upper Division Program: (60)

OCE 3014

Regulred Courses: A minimum of 39 semester hours of geology are required: 3 GLY 3200 Mineralogy GLY 3200L Mineralogy Lab GLY 3220 Optical Mineralogy 3 Optical Mineralogy Lab 1 **GLY 3220L** GLY 3760 Geological Map 3 Analysis

Physical

Oceanography

3

GLY 4310	Igneous and Meta-
	morphic Petrology 3
GLY 4310L	Igneous and
	Metamorphic
	Petrology Lab 1
CLV 4400	
GLY 4400	Structural Geology 3
GLY 4450	Principles of
	Geophysics 3
GLY 4450L	Principles of Geophysics
	Laboratory 1
GLY 4400L	Structural Geology Lab 1
GLY 4555	Sedimentology 3
GLY 4555L	Sedimentology Lab 1
GLY 4650	Paleobiology 3
GLY 4650L	Paleobiology Lab 1
GLY 4791	Field Geology and
	Geologic Mapping 3
GLY 4910	Undergraduate
GE: 4310	Research in Geology 3
Classica	• • • • • • • • • • • • • • • • • • • •
Electives	21

Degree: Bachelor of Arts

This program is for the student who requires a broad background in geology for a career in science education or public or private administration dealing with earth and environmental sciences.

Lower Division Preparation

Four semester hours of physical geology (GLY 1010, GLY 1010L) or equivalent; four semester hours of historical geology (GLY 1100, GLY 1100L); four semester hours of general biology (BSC 1010, BSC 1010L); at least three semester hours of trigonometry and analytical geometry (MAC 2132) or equivalent.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Lower or Upper Division Preparation: General chemistry (CHM 1045, CHM 1045L, CHM 1046, CHM 1046L); general physics (PHY 3053, PHY 3048L, PHY 3054, PHY 3049L) or equivalent.

Upper Division Program: (60 semester hours)

Required Courses: A minimum of 24 semester hours of geology courses which must include the following:

which must inc	clude the following:	
GLY 3200	Minoralogy	3
GLY 3200L	Mineralogy Lab	1
GLY 3030	Environmental Geology	3
GLY 3760	Geological Map	
	Analysis	3
GLY 4650	Paleobiology	3
GLY 4650L	Paleobiology Lab	1
OCE 3014	Physical Oceanography	3

At least an additional 16 semester hours of 3000 or 4000 level courses must be completed in either geology, other science depertments, or in the College of

Engineering and Design. These courses must be approved by a Geology Department advisor.

Electives 20

Minor in Geology

Required courses: GLY 1010 and GLY 1100 with labs, and four additional departmentally approved courses with accompanying labs, one of which must be at the 4000 level.

Two more courses must be completed from the following list: GLY 3220, GLY 4310, GLY 4400, GLY 4791, or OCE 3014

Cooperative Education

Students seeking the baccalaureate degree in Geology may also take part in the Cooperative Education Program conducted with the Department of Cooperative Education in the Division of Student Affairs. The student spends one or two semesters fully employed in industry or a government agency. For further information consult the Department of Geology or the Department of Cooperative Education.

Master of Science in Geology

Admission

To be admitted to the Master's degree program in Geology, a student must meet the following minimum requirements:

- Satisfactorily meet the University's general requirements for admission.
- 2. Hold a Bachelor's degree, or equivalent in a relevant discipline of Sciences or Mathematics. A maximum of 4-credit hours of advanced undergraduate course work will be allowed to count toward the Master's degree.

Students entering with a Bachelor's degree in chemistry whose graduate work will be mainly in goochemistry/petrology, or students entering with a Bachelor's degree in Physics or Mathematics whose graduate work will be mainly in geophysics should take advanced test (GRE) in the field of undergraduate specialization

- 3 Have a grade point average (GPA) of 3 0 or higher (or equivalent) during the last two years of undergraduate program, and a minimum score of 1000 in the Graduate Record Examination.
- 4 Submit at loast three letters of recommendation, preferably from persons in the academic community who are in a position to comment on the

applicant's potential for graduate work.

Students whose native language is other than English must demonstrate adequate level of proficiency in English as a foreign language. An equivalent score of 500 on the TOEFL (Test of English as a Foreign Language), of the Educational Testing Service, or a score of 90 on the Michigan Test of English Language Proficiency is required. Foreign students who have not met this requirement may be conditionally admitted and allowed to enroll in an intensive English Program prior to beginning course work in Geology Satisfactory English proficiency must be demonstrated within the first vear of study.

Application Procedures

Admission decisions to the Program will be made by the Department's Graduate Admission Committee.

To be considered for admission applicants must submit the following documents prior to the term in which they are seeking admission:

FIU Graduate Application Form

- Certified transcripts of all college level work. When applicable, a certified English translation must accompany the original.
- Graduate Record Examination scores taken within the previous two years.
- Scores of English Proficiency, when applicable.
- 5 Curriculum vitae or resume with pertinent information regarding applicant's previous experience and achievements.
- 6. A statement of intent, including a brief discussion (not to exceed 2000 words, including space) of educational goals and career projections. Applicant may also include a copy of previous written scientific work.
- 7. Three letters of recommendation from former professors or academic advisors. Applicants must also comply with deadlines set by the University for consideration for admission in the upcoming semester.

Degree Regulrements

Program of Study Introductory meetings with faculty mombers of the department are arranged for all incoming graduate students and a program of study is planned as early as possible after discussion with the chairperson of the Graduate Admission Committee.

Required Courses:

A minimum of 28 credits within the Department, including GLY 5931 GLY 6932

GLY 5286 Research Instrumentation and

Techniques in Geology 4 Courses in field of specialization

16 GLY 6971 Electives 8

Courses in the field of concentration and electives are chosen by the student in consultation with an advisor. All such courses are selected to fit the student's particular professional goals.

Foreign Language Competency

All students are required to have a reading knowledge of a modern foreign languaga. Competency will be determined by an examination which will consist of a clear translation into English of a technical paper from French, Spanish, German or Russian, Courses taken to gain such proficiency will not be counted toward graduation. As an alternative, students may substitute 6 credits of Computer Science or Mathematics beyond Calculus II.

Fields of Concentration

Petrology - Geochemiatry

Field, analytical and experimental research in petrology/geochemistry of igneous rocks. Application of phase equilibria, and major element trace element and isotope systematics to the interpretation of the origin and chemical evolution of the upper mantle and magmas. Study areas include Hawaii. Chile, the Caribbean islands, the Bonin-Mariana arc-basin system and India.

Paleontology

Biostratigraphic analyses of major fossil groups and their application to universal problems of earth history as can be exemplified in Florida, the Caribbean and South America. Analyses of general problems of animal extinction. paleoecology of specific groups, evolution, and computer programs in paleontology. The department's Caribbean Geological Collection includes the most comprehensive stratigraphic sections of the region to carry our stratigraphic analyses.

Stratigraphy - Sedimentation Research on lithostratigraphy and facies analysis of sedimentary rocks of South Florida and the circum Caribbean region. Tectonic evolution and paleoecology of sedimentary basins of these regions and their relationships to global and regional tectonic processes. Hydrocarbon assessment of potential source of rocks.

Structural Geology - Tectonics Analysis of geologic deformation as it occurs from the microscopic to the

regional scale, based on the principles of continuum mechanics and rock rheology. Geometry and dynamics of major types of structures. Structural analysis and tectonic synthesis. Field oriented investigations in the circum Caribbean region.

Geophysics

Application of geophysical methods to the investigation of current problems in the Earth Sciences. Likely thesis topics include: analysis of regional gravity. aeromagnetic and related potential field data from Mexico and the Circum -Caribbean, paleomagnetic stratigraphy and plate reconstruction, geophysical volcanology. Coursework will cover topics in geophysical principles, field methods and data analysis.

Regional Geology

Tailored to student's professional needs including options in Environmental Geology, Hydrogeology and General Geology. Such options are multidisciplinary in nature and will involve courses from other science departments and engineering.

Graduation Requirements

1. A minimum GPA of 3.0 in all course work required for the 36 credits toward the master's degree.

2. Satisfactory performance on qualifying examinations on general geologic skills and field of subspecialization. Failure to pass this examination will terminate the student's admission in the program.

Completion and successful detense of a thesis. Members of the Thesis committee will be jointly determined by the student's advisor and the Graduate Admission Committee.

Participation in Instructional Activities

All Students in the program are required to participate in instructional aspects of the Department as teaching assistants. Specific assignments may include supervision of laboratories, assistance on field tops, or curatorial duties.

Course Descriptions

Note: Laboratories may not be taken prior to the corresponding lecture course. Laboratories must be taken concurrently where noted, but students must register for the laboratory separately.

Definition of Prefixes

EVS-Environmental Science: GEO-Geography/Systematic; GLY-Geology; MET-Meteorology; OCE-Oceanography; OCG-Oceanography-Geological; OCP-Oceanography/Physical.

EVS 4164 Applied Environmental Geology (3).

EVS 4164L Applied Environmental Geology Lab (1). A survey of the geological and geographical factors critical to man's attempt to contend with the natural processes. Construction problems, sewers, waste disposal, dams, ground water, and terrain evaluation in relation to the nature of the underlying substratum. Principles illustrated from South Florida and the Caribbean region in particular. Study of the geological factors involved in future development and growth of these areas, and conservation methods in relation to the geology of these areas. Prerequisites: GLY 1010, GEO 3200, and a sound background in mathematics, physics, and chemistry. Laboratory must be taken concurrently with the course.

GEO 3200 Physical Geography (3). GEO 3200L Physical Geography Lab (1). Survey of the physical environment relevant to studies in regional geography and earth sciences. Natural evolution of landforms, and the interacting processes responsible for these features. Environmental modification and deterioration caused by human interaction. Effects of these changes: socio-economic impact and geographic problems. Case studies illustrated from South Florida and the Caribbean region.

GEO 3510 Earth Resources (3), A course for non-majors dealing with the nature, origin, and distribution of mineral resources. Geology of petroleum, coal, metals, etc., and problems of their exploitation and depletion.

GLY 1010 Physical Geology (3). GLY 1010L Physical Geology Lab (1). A basic introduction to geological materials, structures, and processes. Properties of the common minerals and rocks, evolution of surface features and the internal constitution of the earth are all discussed. One or two field trips are expected. No prerequisites, Lecture and lab must be taken concurrently.

GLY 1100 Historical Geology (3). GLY 1100L Historical Geology Lab (1). An introduction to the geological history of the earth and the geological time scale. Evolution of animals and plants. Prerequisite: GLY 1010 or GLY 3030 or equivalent. Lecture and lab must be taken concurrently.

GLY 3157 Elements of Caribbean Geology (3). A survey of the geology of the Caribbean and neighboring regions in view of current data and modern concepts of global tectonics. The course summarizes the important points of Caribbean and Central American geology in their relation to mineral and energy resources; natural environmental disasters, especially seismic zones; agriculture; and the geologic potential for future development and industrialization.

GLY 3200 Mineralogy (3).
GLY 3200L Mineralogy Lab (1).
Elementary crystallography;
fundamentals of crystal chemistry and
physical mineralogy. Classification of
common economic and rock forming
minerals; structure and classification of
silicate minerals. Study of geometric and
atomic crystal models and principles,
and interpretation of x-ray diffraction and
fluorescence techniques. Prerequisites:
Physical geology or equivalent and
general chemistry. Laboratory must be
taken concurrently with course.

GLY 3220 Optical Mineralogy (3). GLY 3220L Optical Mineralogy Lab (1). Principles and use of the polarizing petrographic microscope. Optical properties of isotropic, uniaxial and biaxial minerals; solution of optical problems by use of stereographic projections. Prerequisite: GLY 3200 or equivalent. Laboratory must be taken concurrently with course.

GLY 3030 Environmental Geology (3). GLY 3030L Environmental Geology Lab (1). The composition and structure of the earth, the internal and external forces acting upon it and the resulting surface features. Case studies and general principles illustrated from South Florida and the Caribbean. Two field trips expected. No prerequisites.

GLY 3780 Geological Map Analysis (3). Laboratory course dealing with analysis of geological maps and sections; theory and method of interpretation of surface outcrops on maps. Properties of simple geological structures. Recommended to be taken prior to GLY 4400 and GLY 4791. Prerequisites: Trigonometry, physical geology or equivalent (e.g. MAC 2132, GLY 3030 or equivalents)

GLY 3782 Geology Field Excursion (1-3). A one to three week field excursion in a region of interest to demonstrate the occurrence, appearance and processes of various geological phonomona. Course may be repeated Prerequisite: GLY 1010.

GLY 3949/GLY 4949 Cooperative Education in Geology (3). One semester of full-time supervised work in an outside laboratory taking part in the University Co-op Program. Limited to students admitted to the Co-op Program. A written report and supervisor evaluations will be required for each student.

GLY 4190 Caribbean Geology Seminar (3). Discussion of various topics dealing with geographic and geologic problems involving local, national, and international influence on economic lite. Similar discussion will be held on oceanographic problems related to both the aquatic and sea-bed resources. Guest speakers in the earth and social sciences will present lectures pertinent to their respective fields. Prerequisite: GLY 3157 or instructor's permission.

GLY 4310 Igneous and Metamorphic Petrology (3).
GLY 4310L Igneous and Metamorphic Petrology Lab (1). Genesis, composition, and classification of igneous and metamorphic rocks. Includes studies of experimental solid-liquid phase equilibria and mineral stabilities of silicate systems. Prerequisite: GLY 3320. Laboratory must be taken concurrently with course,

GLY 4400 Structural Geology (3). GLY 4400 L Structural Geology Lab (1). Nature and origin of rock structures and deformations, primary structures, geometry and description of tolds, laults, cleavage, jointing, lineations, and other minor structures. Prerequisites: Physical geology or equivalent, and a sound background in mathematics. Laboratory must be taken concurrently with course.

GLY 4450 Principles of Geophysica (3). A general survey of the geophysical principles and methods used for the exploration of the Earth, including gravity, magnetics, electric, electromagnetic, and seismic methods. Prerequisites: GLY 1010 and MAC 3311.

GLY 4450L Principles of Geophysics Laboratory (1). Laboratory and field exercises in geophysics, including gravity, magnetic, electrical and seismic methods. Prorequisite GLY 3360 or GLY 4400 or permission of instructor Corequisite; GLY 4450

GLY 4555 Sedimentology (3).
GLY 4555L Sedimentology Lab (1).
Sedimentary processes in the geological cycles, as illustrated in recent environments. Different groups of sedimentary rocks. Primary and secondary sedimentary structures.
Physico-chemical properties and diagenetic processes. Analytical techniques applied to modern sedimentology of both loose and lithilied.

sediments. Prerequisites: Physical Geology or equivalent; Mineralogy; Optical Mineralogy; Paleontology, and a sound background in mathematics and chemistry. Laboratory must be taken concurrently with course.

GLY 4650 Paleoblology (3).
GLY 4650L Paleoblology Lab (1).
Development of life as traced through
the fossil record. Survey of the main
groups of animals commonly found as
fossils. Theories of evolution and
extinction. Study of the major fossil
groups used in biostratigraphic zonation,
and as paleoecologic indicators.
Prerequisites: Physical and historical
geology, general biology, or the
instructor's permission. Laboratory must
be taken concurrently with course.

GLY 4730 Marine Geology (3). GLY 4730L Marine Geology Lab (1). Survey of the main physiographic provinces of the ocean floor, Modern theories concerning the evolution of the crust: continental drift, seafloor spreading. Distribution and thickness of deep-sea sediments, and their relationship to the morphology and evolution of the crust. Deep-sea mineral resources. Marine geology of the Caribbean from recent data. Sea-bed assessment of mineral resources in the Caribbean and neighboring region. Prerequisites: OCE 3014, GLY 1010, or instructor's permission. Laboratory must be taken concurrently with course.

GLY 4780 Caribbean Mineral Resources Field Trip (3). A three-week field course in at least two Caribbean islands. Cursory review of the geologic factors governing the occurrence, size, and economic value of mineral deposits. Emphasis is on bauxite, copper, and energy resources. Visit to selected regions of active exploitation and processing plants, as well as abandoned mines and potential sites of future exploitation. Prerequisite. GLY 3157 or instructor's permission.

GLY 4791 Field Geology and Geologic Mapping (3). A three-week course to be offered in the United States or in the Caribbean islands. Instruction and practice in methods of geological mapping using topographic base maps and aerial photographs or plane table. Prerequisite. GLY 4400 or equivalent. Open to majors only.

GLY 4816 Mineral Deposits (3). GLY 4816L Mineral Deposits Lab (1). Morphology and genetic processes involved in known occurrences of mineral deposits, structural factors governing thoir size, location and shape Exploration, detection, and exploitation

methods. Emphasis is placed on known and potential mineral deposits of the Caribbean and neighboring areas. Prerequisites: Physical Geology or equivalent, GLY 3220, and chemistry. Laboratory must be taken concurrently with course.

GLY 4910, GLY 4911 Undergraduate Research In Geology (VAR). Individual research under the supervision of a professor in the student's field of specialization or interest. Subject may deal with laboratory work, field, and/or bibliographical work. Field research in the Caribbean is encouraged. Variable credit to a maximum of 10 credits. Permission of the student's advisor is required.

GLY 5021 Earth Sciences for Teachers (3). Study of geological materials and processes, as covered in Physical Geology, but at a higher level and with additional assignments. Prerequisite: Permission of instructor. Corequisite: GLY 5021L.

GLY 5021L Earth Sciences for Teachers Laborstory (1). Study of the properties of minerals and rocks; interpretation of topographic and geologic maps; study of the geology of Florida, including field trips. Prerequisite: Permission of instructor. Corequisite: GLY 5021.

GLY 5158 FlorIda Geology (4). Detailed lithostratigraphic and biostratigraphic analyses of Southeast Florida and their relationship to tectonics, paleoclimates. Prerequisite: GLY 5695 or permission of instructor.

GLY 5246 GeochemIstry (3). GLY 5246L GeochemIstry Lab (1). Origin of chemical elements and principles affecting their distribution in the solar system, solid earth and hydrosphere. Use of chemical data to solve geologic problems. Prerequisites: Physical Geology and General Chemistry

GLY 5286 Research Instrumentation and Techniques in Geology (3). Survey of techniques and instrumentation used in geological research, including computing and data handling.

Prerequisite: Graduate standing or permission of instructor. Corequisite: GLY 5286L.

GLY 5286L Research Instrumentation and Techniques in Geology Lab (1). Introduction to advanced instrumentation and analytical techniques in Geology, including computing and data processing. Prerequisite: Graduate standing or permission of instructor. Corequisite: GLY 5286. GLY 5322 Igneous Petrology and Geochemistry (3). Presentation and discussion of current topics in igneous petrology and geochemistry in a seminar format. Prerequisite: Permission of instructor.

GLY 5346 Sedimentary Petrology (3). Systematic study of sedimentary rocks. Special emphasis on genetical aspects, geochemistry, paleontology, mineralogy, and microtacies. Emphasizes microscopic study. Prerequisite: GLY 4555. Corequisite: GLY 5346L.

GLY 5346L SedImentery Petrology Lab (1). Laboratory studies of sediments and sedimentary rocks with emphasis on microscopic analyses and geochemical techniques. Prerequisite: GLY 4555 and GLY 4555L. Corequisite: GLY 5346.

GLY 5408 Advanced Structural Geology (3). Advanced treatment of the theory of rock mechanics to solve problems solve natural rock deformation. Prerequisites: GLY 4400; MAC 3413; or permission of instructor. Corequisite: GLY 5408L

GLY 5408L Advanced Structural Geology Lab (1). Problem solving in theory of rock deformation. Experimental procedures in rock mechanics. Corequisite: GLY 5408.

GLY 5425 Tectonics (3). Properties of the lithosphere; plate kinematics and continental drift; characteristics of plate boundaries; mountain belts; formation of sedimentary basins. Prerequisites: GLY 1010, 1100, 4400, 4310, 3200 or instructors permission.

GLY 5446 Topics in Structural Geology and Tectonics (3). Selected advanced topics in structural geology and rock deformation. Latest advances in crustal tectonics. Prerequisite: GLY 5408

GLY 5457 Analysis of Geophysical Data (3). Reduction and interpretation of geophysical data, including time series analysis, continuation of potential fields. Three-dimensional modeling of gravity, magnetic data, integrated geophysical surveys. Prerequisites: GLY 4450, PHY 3048, PHY 3049, MAC 3311, MAC 3312, MAP 3302. Corequisite: GLY 5457L.

GLY 5457L Analysis of Geophysical Data Lab (1). Field and laboratory applications of geophysical techniques. Computer aided analysis and threedimensional modeling of gravity and magnetic data. Prerequisites: GLY 4450, PHY 3048, PHY 3049, MAC 3311, MAC 3312, MAP 3302. Corequisite: GLY 5457. GLY 5495 Seminer in Geophysics (2). Detailed investigation of current geophysical techniques, including topics on instrument design. Prerequisite: GLY 5457 or permission of instructor.

GLY 5546 Topics in Stratigraphy (3). Discussion of research projects and/or current literature in stratigraphic correlation as derived from sedimentologic principles and biozonation. Prerequisite: GLY 5346.

GLY 5608 Advanced Paleontology I
(3). Discussion of current literature and research projects on evolution, systematics functional morphology, with reports by members of the seminar. Prerequisites: GLY 4650, GLY 5609, or permission of instructor.

GLY 5621 Caribbean Stratigraphic Micropaleontology (3). Survey of the stratigraphy of biostratigraphic typesections described in the Caribbean area. Deep-sea stratigraphy from both piston-cores and Deep-Sea Drilling Project samples. Emphasis is placed on planktonic foraminifera and radiolaria species used as index-species in the equatorial-tropical biozonation typified in Cretaceous and Cenozoic Caribbean sediments. Paleobiogeographic and paleoecologic considerations. Considerable time will be devoted to the study and identification of specimens under the microscope. Prerequisite: GLY 4650 or the instructor's permission.

GLY 5785 Carlbbean Shallow-Marine Environments (3). Four-week field study of multiple tropical environments as illustrated in the Caribbean. Physicochemical processes in nearshore arenaceous, argillaceous and calcareous environments. Coral reef morphology, ecology and distribution patterns. Dynamical processes acting on nearshore environments, and their effects on reef growth and distribution. Reel bioerosion, Coastal evolution in response to natural processes. On-site study of some similar emerged environments in the Caribbean islands. Economic importance of tropical shallow-marine environments in world fuel resources. Course includes extensive field work both on land and underwater, and an individual field research project. Qualifications: Open to advanced undergraduate and graduate students in the earth and biological sciences or cognate fields.

GLY 5826 Hydrogeologle Modellng (3). Introduction to the techniques used in modeling groundwater flow and solute transport in geologic systems and their application in regional studies. Prerequisites: GLY 5827, MAP 3302, or permission of instructor. GLY 5827 Hydrogeology (3). Recharge and discharge of groundwater, geologic controls on groundwater occurrence, movement and water chemistry. Prerequisite: Physical Geology, Chemistry, or permission of instructor.

GLY 5931 Graduate Seminar (1). Presentation or critical examination of current research problems in geology. A selection of topics is considered each term. Topics may also include individual research in the student's field of investigation. Prerequisite: Graduate standing or permission of instructor.

GLY 6159 Strattgraphy of the Circum Carlbbean Region (4). Detailed lithostratigraphic and biostratigraphic analyses of Caribbean islands, Central America, northern South America and Caribbean basin. Prerequisite: GLY 5609.

GLY 6247 Trace Element and factope Geochemistry (3). Principles of trace element and isotope fractionation and radioactive decay, and their application to the interpretation of igneous rocks and the chemical evolution of the earth. Prerequisite: GLY 5246 or permission of instructor. Corequisite: GLY 6247L.

GLY 6247L Trace Element and Isotope Geochemistry Lab. (1). Analysis of trace elements in rocks and minerals; use of trace element and isotopic data in solving geologic problems. Prerequisite: GLY 5246 or permission of instructor.

GLY 6328 Advanced Igneous Petrology (3). Interpretation of igneous rocks; chemistry and physics of magma generation and crystallization; origin of major igneous rock series with emphasis on tectonic controls. Prerequisite: Permis-sion of instructor. Corequisite GLY 6328L.

GLY 6328L Advanced Igneous Petrology Lab (1), Identification of rocks using microscopic and microprobe techniques. Prerequisite Permission of instructor. Corequisite. GLY 6328.

GLY 6392 Topics In Igneous Petrology and Geochemistry (3). Research seminar in contemporary petrology and geochemistry. Student presentation on thesis research. Preroquisito: GLY 5322 or permission of instructor

GLY 6417 Caribbean Structural Geology and Tectonics (4). Students will be assigned areas and/or topics to make presentation by these will be introduced and supplemented by lecture material. Prerequisite: GLY 5408

GLY 6447 Advanced Topics in Structural Geology and Tectonics (3). Detailed exploration of selected research topics in structural geology and tectonics. Prarequisites: GLY 5446 or permission of instructor.

GLY 6485 Physics of the Earth (3). Properties and dynamics of the Earth's interior studied from a physical perspective. Topics include heat flow, fluid flow, earthquake seismology. Prerequisites: GLY 4450 and MAC 3313.

GLY 6496 Advanced Topics in Geophysics (3). Discussion of research projects and current literature in geophysics. Prerequisite: GLY 5495.

GLY 6595 Topics in Sedimentology (3). Oral presentation by students of research projects and survey of relevant literature with reports by members of the seminar. Prerequisite: GLY 5546.

GLY 6626 Stratlgraphlc Micropaleontology: Foraminifera (3). Nomenclature, taxonomy, and biostratigraphy of Cretaceous and Cenozoic planktonic foraminifera. Studies of stratigraphically important taxa from Caribbean land sections, piston cores, and DSDP/ODP sites. Prerequisites: GLY 5620 or permission of instructor.

GLY 6627 Stratlgraphic Micropaleontology: Radiolaria (3). Nomenciature, taxonomy and biostratigraphy of Cretaceous and Cenozoic radiolaria. Studies of stratigraphically important taxa using Caribbean land sections, piston cores, and DSDP/ODP sites. Prerequisites: GLY 5620 or permission of instructor.

GLY 6628 Stratlgraphic Micropaleontology: Calcareous NannoFosalis (3), Nomenclature, taxonomy, and biostratigraphy of Triassic to Recent nannofossils Intensive training of identification of marker taxa using land and DSDP/ODP sites. Prerequisites: GLY 5620 or permission of instructor

GLY 6690 Topics in Peleontology (3). Oral presentation and discussion of current research projects and relevant literature, with reports by members of the seminar Proroquisite "GLY 5608 or permission of instructor

GLY 6931 Advanced Graduate Seminar (1). Oral presentation and discussion by students of an assigned literature survey, with reports by members of the seminar Prerequisite GLY 5931 or permission of the instructor

GLY 8968 Master's Comprehensive Exemination (0). Oral and written examinations on knowledge in general geology and the student's field of concentration. Schedule to be selected in consultation with the Graduate Committee. Prerequisite: Advanced graduate standing.

GLY 6971 Master's Thesis (1-6). Field and/or laboratory research project toward thesis. Selected in consultation with major professor. Prerequisite: Permission of major professor.

OCE 3001 Introduction to Oceanography (3). OCE 3001L Introduction to Oceanography Lab (1). The oceans, their nature and extent. Water of the oceans, chemical balance. Marine provinces, sediments and their relation to sea lile and oceanic circulation, coastal provinces, sediments and their relation to sea life and oceanic circulation. Coastal and deep-ocean circulation. Waves, tides, tsunamis. One field trip expected.

OCE 3014 Physical Oceanography (3). The ocean origin, physical properties, salinity, temperature, sound. Radiative properties, heat budget and climatic control. Tides, wind-driven motion-monsoon circulation. El Nino phenomenon. Subsurface water masses. Oceanic circulation and paleoclimates.

OCG 6105 Advanced Marine
Geology (3).
OCG 6105L Advanced Marine
Geology Lab (1). Application of
geophysical and geological data to the
interpretation of the earth's crust under
the oceans, including the data provided
by the Deep-Sea Drilling Project,
dredging, piston-coring, gravity
magnetism, and soismicity. Special
emphasis will be given to the genesis
and evolution of the Atlantic and
Caribbean margins, and their potential
for oil resources. Prerequisite: GLY 4730
or permission of instructor

OCG 6280 Marine Sedimentary
Petrology (3).
OCG 6280L Marine Sedimentary
Petrology Lab (1). Analysis of the
gonesis, distribution pattern, physical
and chemical properties of marine
sedimentary facies, with emphasis on
deep-sea sediments. Topics include
deep-sea diagenetic and lithification
processes, their geochemical
relationship in time and space.
Prorequisite: GLY 4555 or permission of
instructor.

OCG 6664 Peleoceanography (3). Mesozoic/Cenozoic development of the major ocean basins, their circulation and sedimentation history. Use of micropaleontologic and stable isotopic techniques in paleoceanographic analysis. Prerequisite: GLY 4730 or permission of instructor.

OCP 5291 Cosstal Processes (3).
OCP 5291L Cosstal Processes Lab
(1). Dynamics of estuarine and nearshore circulation. Advective and diffusive
processes. Natural and man-induced
supply of particulate matter to the
coastal region, and the longshore and
offshore dispersal of this matter. Waves,
tides, periodic sea level changes and
their effects on coastal erosion and
sedimentation. Coastal management.
Prerequisites: OCE 3014 and EVS 4164
or permission of instructor.

History

Howard Rock, Associate Professor and Chairperson

John French, Assistant Professor Howard Kamlnaky, Professor Eric Leed, Associate Professor Susan Mernitz, Assistant Professor Brian Peterson, Associate Professor Joyce Peterson, Associate Professor Darden Asbury Pyron, Associate Professor

Werren Treadgold, Assistant Professor Mark D. Szuchman, Professor

Degree: Bachelor of Arts

Students interested in teacher certification should contact the College of Education at 554-2721.

Lower Division Preparation

Two semesters of Western Civilization. To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

If an entering history major has not met a lower division requirement, the equivalent course must be taken at the University, and will be counted as a nonmajor elective. The equivalent courses are:

EUH 3110 Western Culture and Society, Ancient World to Reformation EUH 3208 Western Culture and Society, The Modern World

Upper Division Program: (60 semester hours)

History majors may take only six credits of lower division history courses as part of the fulfillment of their major requirements.

HIS 4935 Senior Seminar in History One course in each of the following

areas: (The area numbers are indicated in brackets at the end of each course description) Medieval Europe or Ancient History [1] 3 Modern Europe [2] 3 The United States [3] 3 Latin America, the Caribbean, Asia, or Africa [4] Any live additional History courses 15 Electives to make up the prescribed total number of credit hours required for graduation. 30

Minor in History
Five general History courses (15 semester hours)

Master of Arts in History

The Master's of Arts in history, given in cooperation with Florida Atlantic University requires that candidates have a reading proficiency in one foreign language, a minimum of 30 credit hours of which at least 22-24 hours must be course work, and present a satisfactory thesis which must be defended. Course work must include HIS 6129 (Historical Experience), and three seminars in history (of which no more than two may be in any one field). Courses will be offered each term at both institutions, and both libraries will be accessible to candidates.

Course Descriptions

Definition of Prefixes

AMH-American History; EUH- European History; HIS-General; LAH-Latin American History; WOH-World History.

AMH 2015 Historical Analysis: The American Revolution (3). Exploration of the nature of the Revolution from 1763 through ratification of the Constitution in 1789. Emphasis on primary sources, historical interpretations and the nature and meaning of the Revolution. Written work meets state composition requirement (6,000 words).

AMH 2053 Historical Analysis:
Democracy in America (3). The
institutions, social order, and mentality of
the United States in the 1830s, in reality
and in their classic portrayal by Alexis
de Tocqueville, Democracy in America.
Written work meets state composition
requirement (6,000 words). [3]

AMH 3012 American History, 1600-1763 (3). The American social colonial experience from the earliest settlements at Jamestown and Plymouth to the eve of the American Revolution. Particular emphasis will be on religion, social structure, politics, and slavery. [3] AMH 3100 American History, 1607-1850 (3). A survey of American history from the founding of Virginia to the antebellum era. Analysis of colonial America, the American Revolution, the Constitution, and the growth of a new republic. [3]

AMH 3200 American History, 1850 to the Present (3). A survey of American history from before the Civil War to our own day. Analysis of the Civil War, Reconstruction, the Gilded Age, the move toward imperialism, and the problems of the 20th Century. [3]

AMH 3270 Contemporary U.S. History (3). An examination of the major trends, forces and personalities that have shaped the recent American past. [3]

AMH 3317 America and the Movies (3). An examination of social the and cultural history of 20th century America through its movies. [3]

AMH 3331 American Intellectual History I (3). This course will trace the origins and development of the main ideas and intellectual themes of Anglo-American history during the colonial and early national period, 1600-1815. It will stress social ideas and popular concepts, and relate them to the formation of dominant American national characteristics. [3]

AMH 3332 American Intellectual History II (3). This course will emphasize the full flowering of individualistic liberalism in 19th Century American thought, and trace the implications of and reaction against this tradition down to the present. [3]

AMH 3440 The Great American West (3). The course will explore the meaning of the West for both the settlers ammodern Americans. Using song, film, novels, art, etc., the course will examine the lives and values of the Indians, mountain men, farmers, ranchers, and cowboys. [3]

AMH 4041 Culture and Society In America (3). An examination of American social and intellectual history from 1600 to the present through the study of the artifacts of material culture produced by that civilization, and the lives of the men and women who used and created them. [3]

AMH 4130 The American Revolution (3). An exploration of the nature of the Revolution from the beginning of the conflict in 1763 through the ratification of the Constitution in 1789. Discussion of the political and economic differences between the colonists and England,

along with the meaning the war had to the different classes of Americans. [3].

AMH 4140 Age of Jefferson (3). A survey of Jeffersonian America (1790-1828) with emphasis on the origins of American politics, the emerging American economy, the rise of American nationalism, and Jeffersonian mind. [3]

AMH 4160 The Age of Jackson (3). A survey of Jacksonian America (1828-1850) with emphasis on the growth of political parties, the rise of American industry, the emergence of labor, slavery, and early reform movements. [3]

AMH 4170 CIVII War and Reconstruction (3). The rise and sources of militant sectionalism in the United States, the war itself, and the restoration of the nation. [3].

AMH 4231 The Roaring Twentles and the Greet Depression (3). A political, economic, social, and intellectual history of the 1920s and the great depression of the 1930s. [3]

AMH 4251 The Great Depression (3). This course deals with the experience of the American people in the Great Depression of the 1930s. It examines causes of the depression, government response, and effectiveness of response, as well as looking at the actual daily experience of people during depression and the changes the depression made in U.S. society [3]

AMH 4292 Origins of Modern America, 1877-1920 (3). U.S. history between the Civil War and World War I, origins of modern American social, cultural, and private life. Impact of industrialization, urbanization, immigration and war on American society, culture between 1877 and 1920.

AMH 4400 Southern History (3). An examination of the main themes and social forces that have shaped the southern experience and the southern intellectual tradition in a distinctive way within the larger historical reality of colonial Anglo- America and the United States. The period covered is from initial exploration and settlement of Sir Walter Raleigh and John Smith to the present. [3]

AMH 4500 United States Labor History (3). A history of the expenence of working class people in the United States and of the trade union movement from colonial times to the present [3]

AMH 4560 History of Women In the United States (3). The changing dimensions of women's lives from the colonial era of U.S. history to the present. The course will examine the changing economic, social, and political position of women as well as the development of feminist movement and organizations. [3]

AMH 4570 Afro-American History (3). Black society in the United States and its relation to the political, economic, social, and cultural history of America. [3]

AMH 4930 Topics in U.S. History (3). Selected topics or themes in U.S. history. The themes will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule). [3]

EUH 2015 Historical Analysie:
Athens, Sparta, Peloponnesian War
(3). A study of the Peloponnesian War,
in Thucydides' classical history, that
aims to introduce the student to the
subject-matter of Western history and to
the habits of critical thinking about the
meanings of thought and action. Written
work meets state composition
requirement (6,000 words).

EUH 2029 Historical Analysis: Medleval Chivalry (3). A study of the aristocratic ideal of chivalry as a code of behavior, as a legitimation of hegemony, and as a cultural force. Written work meets state composition requirement (6,000 words).

EUH 2069 Historical Analysis: The Russian Revolution (3). A study of the Russian Revolution of 1917: its causes, dynamics, and implications. Written work meets state composition requirement (6,000 words).

EUH 2074 Historical Analysis: De Tocqueville and the French Revolution (3). Analysis of the causes and effects of the French Revolution through the eyes of one of its leading interpretors, Alexis de Tocqueville. Written work meets state composition requirement (6,000 words).

EUH 2235 Historical Analysis: The Romantic Tradition (3) A study of the Romantic tradition of self-fulfillment from Rousseau and Goothe to the present Alternative paths of self fulfillment including socialism and elitism. Written work meets state composition requirement (6.000 words)

EUH 3110 Western Culture and Society, Ancient World Reformation (3). An analysis of the social, political, material and cultural forces which shaped the omergence of Western Civilization. Topics include ancient Greece and Rome, medieval society, and the Renaissance.

EUH 3121 Europe In the Earlier Middle Ages (3). Europe from the tail of the Roman Empire in the West (ca.500 A.D.) to the first crusade (1095). The formation of the feudal society, the military upper class, the imperial papacy, the monastic order, the interplay between Christian and worldly ideas. [1]

EUH 3123 Europe In the Later Middle Ages (3). Europe from the Twelfth through the Fitteenth Centuries. The formation of territorial states and an anistocratic order of status: Romanesque and Gothic arts; courtly romance and chivalry, development of subjectivity and individual sell-consciousness; heresy, inquisition, and social revolution. [1]

EUH 3142 Renaissance and Reformation (3). A study of the development of humanism in Italy and Protestantism in Germany, and their impact on Europe in the Fourteenth, Filteenth, and Sixteenth centuries. [2]

EUH 3203 Europe In the 17th Century (3). An examination of the "radical century" which defined many of the values of the modern age: the work ethic, the scientific view of nature, the notion of market society, the modern state, and bourgeois ideology. The course will emphasize the Puritan Revolution in England and the rise of absolute monarchy in France. [2]

EUH 3205 Nineteenth Century Europe 1815-1914 (3). This course will deal with the political, diplomatic, economic, social, and cultural history of Europe from 1815 until 1914. Special attention will be given to the Industrial Revolution. [2]

EUH 3208 Western Culture and Society, The Modern World (3). An analysis of the main currents of Western Civilization from the Reformation to the present

EUH 3245 European History, 1914-1945 (3). Europe in the era of the two World Wars, with special emphasis on communism and fascism [2]

EUH 3282 European History, 1945 to Present (3), Europe since the Second World War examined in its political, diplomatic, social, economic, and cultural aspects [2]

EUH 3400 Greek History (3). The origins of the Greek polis in Mycenaean times, its domination of civilization in the first millenium B C., its transformation

under Alexander and his successors. The political history, culture, values, and social dynamics of Greek civilization. [1]

EUH 3411 Ancient Rome (3). The formation of the Roman republic, its rise to domination in the Mediterranean, its transformation into the Roman Empire, and its final disintegration. The political history, culture, values, social dynamics, and enduring force of the Roman civilization. [1]

EUH 3460 Germany from Charlemagne to Hitler (3). An overview of German history with special emphasis on the development of the National Socialist movement. Political, economic, social, and religious aspects of German history will be covered. [2]

EUH 3570 Russian History (3). An overview of Russian History from the time of tribal Slavs until today. The course will focus especially on the changing conditions of the Russian peasantry and on the unique development of the Russian state. [2]

EUH 3576 The Russian Revolution and the Soviet Union (3). This course deals with Russia since 1917 and focuses particularly on the theory and practice of communism in the Soviet Union. The impact of communism on the lives of the people, whether in politics, economics, or culture, will be examined. [2]

EUH 3601 Medleval Culture (3). Selected topics in the cultural history of Europe from 500 to 1500: epic and knightly romance; Christian theology and spirituality; scholastic philosophy; Romanesque and Gothic arts; the rise of literature in the vernacular; the culture of the layman; and the contribution of women. [11]

EUH 3611 Europeen Cultural and Intellectual History (3). This course will examine the development of the key ideas in European political and social theory, in conceptions of the natural world and of the individual which have come to dominate European culture in the last four hundred years. [2]

EUH 4006 Modern Europe, 1789-Present (3). European history from the French Revolution until today, with special attention to liberalism, nationalism, socialism, communism, and lascism. The course will touch on the main points of the national histories of the various European states, from Britain to Russia. [2]

EUH 4186 King Arthur end His Knights (3). A study of Arthurian romance from the 12th to the 15th Centuries, as the sell-image of aristocracy. The following themes will be emphasized: chivalry, adventure, erotic idealism, Christian consecration, and the creation of secular individualism. [1]

EUH 4187 Topics in Medieval European History (3). Selected topics or themes in Medieval history. The themes will vary from semester to semester. With a change in content, the course may be repeated. (The theme will be announced in the yearly schedule). [1]

EUH 4286 Topics in European History (3). An examination of selected topics or themes in early modern and modern European history. The themes will vary from semester to semester. With a change in content, the course may be repeated. (The theme will be announced in the yearly schedule). [2]

EUH 4313 History of Spain (3). A survey of Spanish history from the Reconquista through the Civil War, with particular emphasis on the Golden Age. [2]

EUH 4453 The French Revolution and Napoleon (3). A study of French and European history from 1798 to 1815, with an emphasis on the political development of the Revolution, social groups within France, and the rise of Napoleon. [2]

EUH 4520 England In the 18th Century (3). Exploring one of the greatest eras in English history, this course will cover the growth of the British empire, crown and Parliament, the industrial revolution, social problems and English culture. [2]

EUH 4602 The Enlightenment (3). This course deals with the French Enlightenment of the Eighteenth Century, particularly with Voltaire, Diderot, and Rousseau. Impact of the Scientific and English Revolutions on Enlightenment. [2]

HIS 3001 Introduction to History (3). Approaches to the study of the Western tradition.

HIS 3308 Wer and Society (3). An examination of the ways societies have organized themselves for external and internal wars. The course will also explore the changing conduct of war, the image of the warrior, and the ways in which military institutions have crystalized class structures.

HIS 3930 Special Topics (3). An examination of specific themes or topics

in history. The theme will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule).

HIS 4282 Europe In the Americas;
Comparative Colonial Societies (3). A comparative analysis of the colonial experiences of Spanish Latin America and British North America. This course will discuss economic, social, political, religious, and cultural growth, focusing on influences of the mother countries.

HIS 4450 Stavery in the Americas (3). Alro- American slavery as a dominant system in the period 1500-1900. Topics include labor systems, historical demography, family structure, race relations, resistance to slavery and abolition.

HIS 4908 Independent Study (VAR). Individual conferences, assigned readings and reports on independent investigations, with the consent of the instructor

HIS 4930 Special Topics (VAR). An examination of specific themes or topics in history. The theme will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule).

HIS 4935 Senior Seminar in History (3). A seminar to be taken by all history majors, to provide experience in research, writing, and critical analysis.

HIS 5289 Comparative History (3). A study of specific topics in history that cut across regional, national, and chronological lines. The topics will change from semester to semester, and with a change in content, the course may be repeated. (The topic of the course will be announced in the yearly schedule).

HIS 5908 Independent Study (VAR). Individual conferences, assigned readings and reports on independent investigations, with the consent of the instructor.

HIS 5910 Advanced Research Seminar (3). Small group their sessions which will analory particular subject areas in history, with the consent of the instructor.

HIS 5930 Special Topics (VAR). An examination of specific themes or topics in history. The theme will vary from semester to semester, and with a change in content, the course may be repeated. (The theme will be announced in the yearly schedule).

HIS 6128 The Historical Experience (3). A seminar designed to introduce the beginning graduate student to the technical aspects of the study of history. This course treats the problems involved in the preparation of the Master's thesis.

HIS 6970 Thesis Research (1-10). Research toward completion of Master's Thesis. May be repeated. Prerequisite: Permission of Department.

HIS 6971 Master's Thesis (3). The course is for students preparing their theses. Prerequisite: Successful completion of all graduate requirements and electives.

LAH 2092 Historical Analysis: The Latin Americans (3). An examination of the evolution of symbols of status and power, and of the socio-economic relationships among groups within the various Latin American regions. Written work meets state composition requirement (6,000 words).

LAH 3132 The Formation of Latin America (3). An examination of Latin America in the colonial period, focusing on conquest, Indian relations, the landed estate, urban functions, labor, and socioeconomic organization from the 15th through the 18th Centuries. [4]

LAH 3200 Latin America: The National Period (3). Trends and major problems of Latin American nations from independence to the present.

LAH 3450 Central America (3) An overview of Central American history from colonial times to the present, with emphasis on the period after the mid-Eighteenth Century. All five modern nations are dealt with in some detail, while the thematic focus is on social and economic history. Prerequisite: One course in Latin American History or permission of instructor. [4]

LAH 4433 Modern Mexico (3). An examination of the central themes of nation-building in Mexico from 1810 to the present: race, land, political authority, regionalism, dictatorship, and the Mexican Revolution [4]

LAH 4474 Topics in Caribbean History (3), Selected topics or themos in Caribbean history. The themes will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule). [4]

LAH 4482 Cubs: 18th - 20th Centuries (3). The socio-economic and political setting in Cuba since the mid-Nineteenth Century,[4] LAH 4511 Argentina: 18th - 20th Centuries (3). A survey of the social and political formation of the Argentine nation, starting with the colonial legacy and ending with the contemporary political situation. [4]

LAH 4700 History of Brazil (3). Origins of Portuguese rule and African slavery; crisis of colonialism and transition to independence; coffee, abolition, and the Brazilian Empire; Republican Brazil and the Revolution of 1930; postwar developments. [4]

LAH 4932 Topics in Letin American History (3). Selected topics or themes in Latin American history. The themes will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule). [4]

LAH 5305 20th Century Latin American History (3). Advanced analytical studies of socio-economic phenomena in Latin America: race relations, authoritarianism, modernization, migration, capitalism, and the State. [4]

WOH 1001 Historical Analysis: World Civilization (3). Comparative histories of major world civilizations, including China, India, the Moslem Middle East, Africa, Latin America, and the West. Emphasis on cultural characteristics and interactions. Written work meets state composition requirement (6,000 words).

WOH 3280 Women's History (3). A survey of the position of women in the major world civilizations. The course examines the position of women from the stone age to the present, with particular attention to both women's actual function in society and the ideal definition of womanhood in different societies.

WOH 3281 Jewish History to 1750 (3). Jewish history from the First Exile in 586 BCE to 1750. The development of Jewish institutions in exile and as a nation, the development of the Talmud and the medieval experience

WOH 3282 Modern Jewish History (3). A survey of the major currents of developments in modern Jewish History The reaction to the Enlightenment, the American experience, the growth of the Eastern European Shtetl, the Holocaust and the Birth of the State of Israel

WOH 3283 Jewish History (3). A survey of modern Jewish history

Humanities

Ramon Mendoza, Prolessor, Modern Languages, Director of Humanities Fernando Gonzalez, Relgosa, Associate Professor, Psychology Ken Henley, Associate Professor, Philosophy

Joyce Peterson, Associate Professor, History, Associate Dean Richard P. Sugg, Professor, English Barbara Watts, Assistant Professor, Visual Arts

Degree: Bachelor of Arts

The Humanities program offers a structured interdisciplinary curriculum designed to confront the student with values and issues concerning man and society, extending beyond the scope and methodology of natural and social sciences.

The program focuses primarily upon the human condition, human values, changing views of the world, and society's major concerns. These values. world views, and concerns have been the preferred object of thought and creativity of philosophers, poets. playwrights, fiction writers, artists, mystics and religious thinkers. Their views have become the reservoir of humankind's most outstanding intellectual achievements, and they have also been powerfully expressed in the works of painters, sculptors, and film directors, as well as in other productions of mass media and popular culture, which must now engage the serious student of our culture and its future. The program also pays particular attention to non-Western and American ethnicminority cultures, in order to expose the student to the different values, world views, and outstanding cultural achievements of these cultures.

For those students particularly interested in Classical Greek and Roman culture, the program offers a well-structured Classical track and a sequence of Greek and Latin courses. The Humanities program is not only theoretical. It seeks to develop in the student those skills and attitudes which are specifically human, such as skills of verbal and written communication. analytical skills, open-minded and critical attitudes towards the problems of our changing society, artistic sensitivity and expression, and all forms of imaginative creativity. Above all, the program hopes to challenge the student to raise the cultural level of our society by bringing his or her humanistic approach to bear upon institutions. cultural programs, mass media, and the business community.

The Humanities program is not only a richly rewarding program of undergraduate study, but it also prepares students for later success in post-graduate programs in the liberal arts, law school, business, and public affairs

A Humanities double major is a fine complement to a highly specialized vocational or professional major. In addition, a Humanities minor offers an attractive option both to students in arts and sciences and to those in the other schools of the University.

Lower Division Preparation

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program

Core: Four courses required (12 semester hours):

HUM 3211 Ancient Classical Culture and Civilization

HUM 4431 The Greek World¹ HUM 4920 Humanities Colloquium 3

Any two courses from the following:

HUM 3432 The Roman World
HUM 3435 The Medieval World
HUM 323 Renaissance and
Baroque Cultures
HUM 3246 The Enlightenment and
the Modern World

 Six additional Humanities courses taken from any of the above-listed Humanities core courses not taken previously and/or the following interdisciplinary Humanities courses (18 semester hours):

HUM 3304 Values in Conflict **HUM 3325** Women, Culture and History **HUM 3306** History of ideas HUM 3512 Art and Society **HUM 3545** Art and Literature **HUM 3930** Female/Male: Women's Studies Seminar **HUM 4391** Human Concerns¹ **HUM 4542** Human Concerns¹ **HUM 4406** Film and the Humanities HUM 4450 Cultural Heritages and Changes1 **HUM 4491** Cultural Heritages and Changes¹

HUM 4543 Literature and Philosophy
HUM 4544 Literature and the

Humanities HUM 4561 Ethics and the

Humanities HUM 4555 Symbols and Myths

¹With a change in theme and the instructor's permission, these courses may be repeated for credit.

 General Electives (30 semester hours)
 These courses may be outside of the Humanities and its contributing disciplines. Courses must be approved by the Program Director.

4. Language Requirement: Students must demonstrate a reading knowledge of a classical or modern language other than their native tongue equivalent to the end of the second semester of intensive beginning language instruction. This requirement may be satisfied by completing ten hours of language instruction or by passing a competency examination administered by the Department of Modern Languages.

5. Classics Track

3

a. Humanities Core Curriculum 12

b. Three additional courses dealing with Classical (Greek or Roman) culture and civilization. These courses may be discipline courses of the contributing department.

c. Three interdisciplinary Humanities (HUM) courses

d. Language requirement: The language requirement is the same as for other Humanities majors; however, students in the Classics Track are strongly encouraged to satisfy the requirement with a Classical language,

e. General Electives These courses may be outside of the Humanities and its contributing disciplines. Courses must be approved by the Program Director 30

Minor in the Humanities
1. One of the following:

HUM 3211 Ancient Classical

Culture and Civilization

HUM 4431 The Greek World

or HUM 3432 The Roman World

2. Four additional HUM courses 12

Electives: Four other Humanities courses, including the Classical languages, not crosslisted with courses used to satisfy requirements of the student's major.

Course Descriptions

Definition of Prefixes HUM-Humanities

GRE 1120 Classical Greek I (5). Emphasis of grammar, and on basic reading and writing skills.

GRE 1121 Classical Greek II (5). Emphasis on grammar, and on basic reading and writing skills. Prerequisite: GRE 1120.

GRE 3200 Intermediate Classical Greek (5). Emphasis on grammar, and on acquiring intermediate reading and writing skills. Prerequisite: GRE 1121.

GRW 3210 Greek Prose Writers (3).
Translation into English and grammatical
analysis of selected texts of Classical
prose writers, such as Plato, Aristotle,
Xenophon, Thucydides and Plutarch.
Prerequisite: Reading knowledge of
Classical Greek or GRE 3200.

HUM 3211 Ancient Classical Culture and Civilization (3). Explores the culture of the ancient Greek and Latin worlds from an interdisciplinary perspective and studies the varied conceptions of the individual, society, and nature.

HUM 3223 Renalssance and Baroque Cultures (3). An in-depth examination of the cultural monuments of the Renaissance, Reformation, Counter-Reformation, and Baroque periods and of the forces that helped shape them.

HUM 3246 The Entightenment and the Modern World (3). Explores the culture and the Enlightenment and the modern world from an interdisciplinary perspective and studies the varying conceptions of the individual society and nature.

HUM 3304 Values in Conflict (3). Philosophical, ethical, and religious foundations of Western civilization and significant challenges its value system has received from critical and revolutionary thought.

HUM 3306 History of Ideas (3). The historical development of lundamental concepts through an interdisciplinary cultural approach. Nature, freedom, beauty, virtue, alienation, and relativism are traced in literature, art, and philosophy including the social context of developing ideas.

HUM 3325 Women, Culture and History (3). Examines women's lives within various world cultures and historical periods. Examines the cultural meaning attributed to women, women's lived experiences and historical contributions.

HUM 3432 The Roman World (3). An in-depth examination of selected cultural monuments and events of the Roman Republic and Empire and of the forces that helped shape them.

HUM 3435 The Medlevel World (3). An in-depth examination of cultural monuments of the European Middle Ages and of the forces that helped shape them.

HUM 3512 Art and Society (3). A study of the relationship between art and culture in different periods, including patronage, the role of the artist, and the relationship between art and economic, political, religious, and ideological forces.

HUM 3545 Art and Literature (3). A study of a period in the history of visual art as it relates to literature. Topics may include art and mythology, sacred and profane love in art and literature, painting and poetry, and the novel and art.

HUM 3930 Female/Male: Women's Studies Seminar (3). This course interprets and contrasts the status of women and men in context with women's inequality. Diverse topics include the workplace, family, education, image, violence and ethnicity.

HUM 3949 Cooperative Education in Humanities (3). A student majoring in Humanities may spend one or two semesters fully employed in industry in a capacity relating to the major.

HUM 4391 4542 Human Concerns (3). Examines concerns important to the human condition, including varying conceptions of human nature, the relation of the individual to society, the quest for identity, the search for meaning through literature, art and social institutions. (With consent of the instructor, this course may be repeated for credit).

HUM 4406 Film and the Humanities (3). Studies the significance of film in Western culture: the language, semiotics and technique of films with the aid of appropriate cinematographical material.

HUM 4431 The Greek World (3). An indepth examination of selected cultural monuments and events of the Greek World in the Classical and Hellenistic periods and of the forces that helped shape them.

HUM 4450, 4491 Cultural Heritages and Cultural Changes (3) Focusos upon various cultures and their development, including such topics as: cultural evolution and revolution, ethnicity and pluralism, and subcultures and countercultures. (With consent of the instructor, this course may be repeated for credit)

HUM 4543 Literature and Philosophy (3). The interpenetration of literature and philosophy from an interdisciplinary perspective. In eddition to philosophical novels, poetry, and drama, the course may examine philosophical scrutiny of literature.

HUM 4544 Literature and the Humantilee (3). Literature from an interdisciplinary perspective. Literary texts are related to the cultural context of their production and the ideas surrounding them.

HUM 4555 Symbols and Myths (3). An in-depth examination of mythology and symbolic language within the cultural and psychodynamic forces that inform them. This course gives special emphasis to Classical myths.

HUM 4561 Ethics and the Humanities (3). Human values studied from an interdisciplinary perspective. Selected ethical issues are examined using philosophical, historical, or literary texts. The relationship between ethical values and cultural achievements is explored.

HUM 4701 Study Abroad In the Humanitles (1-9). Integrated study of painting, architecture, music, drama, dance, and philosophy. Attitudes and beliefs of societies as they are reflected in the arts.

HUM 4920 Humanities

Interdisciplinary Colloquium (3).
Addresses a specific topic in-depth from a variety of perspectives. Topics will be announced in advence. (With consent of the instructor, this course may be repeated for credit.)

LAT 1120 Latin I (5). Emphasis on grammar and on acquiring basic reading and writing skills.

LAT 1121 Latin II (5). Emphasis on grammar and on acquiring reading and writing skills. Prerequisite: LAT 1120.

LAT 2200 Intermediate Latin (5). Emphasis on grammar and on acquiring basic reading and writing skills. Prerequisite: LAT 1121.

LAT 3210 Latin Prose Writers (3)
Translation into English and grammatical
analysis of selected texts of classical
prose writers such as Cicero, Caesar
and Livy Prerequisite: Reading
knowledge of Latin or LAT 2200.

International Relations

Charles G. MacDoneld, Professor and Chairperson

Ken I. Boodhoo, Associate Professor Thomas A. Brestin, Associate Professor

Peter R. Craumer, Assistant Professor Ralph S. Clem, Professor Nancy E. Erwin, Assistant Professor Damlan J. Fernandez, Assistant Professor Farrokh Jhabvala, Professor Antonio Jorge, Professor Mohladdin Mesbahl, Assistant Professor

Susan Waltz, Assistant Professor Gregory B. Wolfe, Professor

Degree: Bachelor of Arts

Lower Division Preparation

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Recommended Courses: Economics, foreign languages, geography, history, international relations, introduction to statistics, political science, sociology.

Upper Division Program

International Relations majors must complete 30 semester hours of coursework in the department with a grade of 'C' or better.

Core Requirement: 12 semester hours GEA 3000 World Regional

Geography 3 INR 3003 Foundations of International Relations 3 or

INR 2001 Introduction to International Relations

(with the approval of an advisor) INR 3013 Development of

International
Relations Thought 3
INR 4603 Approaches to
International Relations 3

Breadth Requirements: 18 semester hours
At least one course in each of the

following:
Area studies (regional courses on
Europe, the Caribbean, Latin America,
Africa, Asia, or the Soviet Union) (AS)
Population Studios or Geography (PG)
International Law or Organization (IL)
Issues and Problems in International
Relations (IP)

Electives: Courses are designed to meet particular professional goals. The student is encouraged to consider a dual major in related helds; to pursue courses in foreign languages and methodology; and to work toward appropriate academic certificates (e.g., Latin American and Canbbean Studies).

Minor In Geography

A student majoring in another academic discipline earns a Minor in Geography by successfully completing approved coursework of 15 semester hours as described below.

GEO 3000 Introduction to Geography 3
GEA 3000 World Regional Geography 3

In addition to the above required courses, students must take a minimum of three other Geography courses, at least one with a GEA prefix, and at least with a GEO prefix.

Minor in International Relations
A student majoring in another academic discipline earns a Minor in International Relations by successfully completing approved coursework of 15 semester hours in the Department of International Relations. This program must include: INR 3003 Foundations of

International Relations 3

or

INR 2001 Introduction to International Relations (with the approval of an

advisor) World Regional

GEA 3000 World Regional Geography 3 or

An approved course in Geography A course in International Law or Organization Two electives in International Relations

Dual Major and Certificates
Students are encouraged to pursue a
dual major or a certificate program to
complement the International Relations
program. This allows the student to add
an important dimension to the major.

Course Descriptions

Definition of Prefixes CPO-Comparative Politics; GEA-Geography-Regional (Area); GEO-Geography-Systemic; HFT-Hospitality, Food, Tourism; INR-International Relations; POS- Political Science; PUP-Public Policy.

GEA 3000 World Regional Geography (3). A systematic survey of the major regions and countries of the world, with regard to their physical, cultural, and political characteristics. Emphasis upon climate, natural resources, economic development, and population patterns.

GEA 3172 Geography of the Developing World (PG) (3). Examines the geographical factors shaping the differences between more and lessdeveloped countries, and prospects for narrowing these in the future. Stress is laid on the need to utilize efficiently the physical environment and the human barriers to such utilization.

GEA 3326 Population and Geography of the Carlbbean (PG) (3). Physical,

cultural and political geography of the Caribbean; emphasis on population patterns, growth and ethnicity.

GEA 3400 Population and Geography of Latin America (PG) (3). Introduction to the physical, cultural, and political geography of Latin America. Emphasis on population patterns and problems of population growth, systems of land use and tenure, economic development, natural resources, and agriculture.

GEA 3500 Population and Geography of Europe (PG) (3). Introduction to the physical, cultural, and political geography of Europe emphasizing the evolution of the states and the geographical factors facilitating the integration movement.

GEA 3554 Population and Geography of the Soviet Union (PG) (3). An analysis of the U.S.S.R. in terms of its resources; economic development; and aspects of population change such as migration, urbanization, and nationality groups.

GEA 3600 Population and Geography of Africa (PG) (3). Introduction to the physical, cultural, and political geography of Africa. Emphasis on the evolution of independent states, and economic development.

GEA 3630 Population and Geography of the Middle East (PG) (3). Introduction to the physical, cultural, and political geography of the Middle East. Emphasis on population patterns, natural resources, and economic development.

GEA 3710 Population and Geography of China (PG) (3). Introduction to the physical, social and cultural geography of China. Emphasis on population patterns, problems of population growth, regionalism.

GEO 3000 Introduction to Geography (3). Leading concepts of human and environmental geography. Physical, cultural, economic and political factors in the spatial patterns of natural and human systems.

GEO 3471 Polltical Geography (PG) (3) Emphasis is given to man's organization of space, particularly as it pertains to the nation-state. Factors instrumental to determining the viability of states are included stressing unilying-repelling forces.

GEO 3602 Urban Geography (PG) (3). The study of spatial organization within and among urban settlements. Analysis of both the empirical and theoretical aspects of urbanism are covered, with an emphasis on current urban problems.

GEO 5415 Topics in Social Geography (PG, IP) (3). Topics discussed include geographic aspects of population and ethnicity, with emphasis on sources and analysis of data and pertinent concepts. Prerequisite: GEA 3000 or permission of instructor.

HFT 3700 Tourism and International Affairs (IP) (3). An introduction to basic elements of international tourism; an inquiry into the transnational influence of tourism as affected by its institutional organization, by the leisure traveler, and by the host national; and a review of opportunities for policy-making by the group, the State, and international and global agencies.

INR 2001 Introduction to International Relations (3). Introduction to the interactions among international actors: states, international organizations, and transnational groups. Concepts such as power and national interest will be introduced.

INR 3003 Foundations of International Relations (3). An examination of international political, economic, and social systems. Emphasis is placed on basic approaches to the study of international relations.

INR 3004 Patterns of International Relations (IP) (3). The course deals with the development and practice of key concepts of international relations as seen in the historical perspective of the 19th and 20th centuries. The course is structured so as to emphasize the continuity and coexistence of the several concepts during the 20th century, and to provide an outline of modern diplomatic history.

INR 3013 Development of Internetional Relations Thought (3). The nature and characteristics of international relations from antiquity to the end of the First World War. Examination of the religio-philosophical, socio-economic and political ideas and systems associated with them. Study of select historical occurrences and patterns of social change and their interaction with the dynamics of international relations. Prerequisite: INR 3003.

INR 3031 The Future of the International System (IP) (3). Explores probable and improbable international futures through the use of simulations, gaming, and speculative literature. Focuses upon alternatives to present international arrangements.

INR 3043 Population and Society (IP) (3). Introduction to basic demographic concepts: fertility, mortality, migration, urbanization. Discussion of economic development, modernization and population change. Examination of sources of data and background information including censuses and vital statistics, and their utilization.

INR 3081 Issues and Problems In International Relations (IP) (3). Examines selected world and regional issues and problems. Topics vary according to the instructor.

INR 3214 International Relations of Europe (AS) (3). An examination of the international, social, economic, and political life of contemporary Europe. Emphasis given to international organizations and the trend toward economic and political integration.

INR 3224 International Relations of East Asis (AS) (3). A survey of the patterns of international relations in the post-colonial periods in east and southeast Asia. Political, military, and economic aspects examined.

INR 3226 International Relations of South Asia (AS) (3). A study of South Asia as a regional international system with special emphasis on the period 1945 to the present. Interaction between the regional and world systems. Role of the super-powers.

INR 3232 International Relations of China (AS) (3). An examination of the development of China's international relations in the 20th century. Special attention to the development of institutional mechanisms for diplomacy and to problems of integrating domestic and foreign policies.

INR 3245 International Relations of Latin America (AS) (3). An examination of international, social, economic, and political life of Latin America. Emphasis given to the role of international organizations; regionalism; and the trend toward economic integration

INR 3246 International Relations of the Caribbean (AS) (3) An examination of the international social, economic, and political life of the Caribbean. Includes English, Spanish, and French speaking regions.

INR 3253 International Relations of Sub-Saharan Africa (AS) (3). An examination of contemporary social, economic, and political life in sub-Saharan Africa in view of historical experiences. Special attention given to regional conflicts and apartheid INR 3262 Soviet Foreign Pollcy (AS) (3). Description and analysis of Soviet Foreign Policy in light of ideology and national security. Specific cases and current issues will be discussed, especially those involving Soviet-American and Sino-Soviet Relations.

INR 3274 International Relations of the Middle East (AS) (3). An examination of the international social, economic, and political life of the Middle East. The role of oil in the region will receive special attention.

INR 3281 International Tourism and Third World Development (IP) (3). An introduction to the impact of tourism on Third World states and the role of the tourist industry in Third World development. Environmental effects will also be examined.

INR 3402 Principles of Public International Law II (IL) (3). A study of public international law principles in selected areas such as treaties; state succession; law of the sea; air and space law; law of international economic institutions; international conflict resolution procedures.

INR 3403 International Law (IL) (3). Introduction to the legal concepts, framework, and institutions which play a role in international relations theory and practice.

INR 3502 International Organizations (IL, IP) (3). The study of international political, economic, and social organizations and their impact upon the relations between nations. Emphasis on the constitution, voting, membership, security and operation of such organizations, and the settling of international disputes through these bodies.

INR 3949 Cooperative Education in Social Sciences (3). A student majoring in one of the Social Sciences (Economics, International Relations, Political Science, Sociology, or Psychology) may spend several somesters fully employed in industry or government in a capacity relating to the major Prerequisite: Permission ol Cooperative Education Program and major department

INR 4024 Ethnicity and Nationality: World Patterns and Problems (IP) (3). A systematic survey of multinational states and their current political and socio economic situations. The concept of ethnicity and its correlates. Conceptual bases of ethnic integration, assimilation, and stratification. The macro and micro-scales; country, region,

city, neighborhood. The consequences of modernization and economic development.

INR 4033 International

Communication (IP) (3). The course will explore language as the medium of national and international communication: the multiple and often conflicting roles of language as unifier and isolator of political and social entities.

INR 4044 World Population Problems (IP) (3). Analysis of problems of population growth, economic development, and food supply. The impact of population growth upon the world political system. The Green Revolution and its implications. Environmental consequences of population growth. Prerequisite: INR 3043.

INR 4054 World Resources and World Order (IP) (3). An examination of the impact of the quantity and distribution of the world's resources upon the relations between nations. The availability of mineral resources and food, in particular, will receive attention; and an assessment will be made of the international economic and political implications deriving therefrom.

INR 4247 Caribbean Regional Relations (AS) (3). An examination of the lorces and institutions which contribute to or inhibit cooperation and integration in the Caribbean. Prerequisites: INR 3246, CPO 3323, ECS 4432, or ECS 4433.

INR 4261 Science, Technology and International Relations (IP) (3). A study of the importance and relevance of science and technology to our understanding of international relations. Emphasis will be placed on national scientific policies of major countries, their implication on the international community, and the major national and international agencies, organizations, treaties, and programs.

INR 4283 International Relations, Development, and the Third World (AS, IP) (3). An examination of the impact of the theory and practice of development and the relations between nations, with particular emphasis on the Third World. Attention given to the role of international political and economic organizations in the development process.

INR 4335 Force in International Relations (IP) (3). The role of lorce in international relations is examined. The use and control of force in theory and practice is analyzed. Special attention is paid to contemporary national security issues.

INR 4404 International Protection of Human Rights (IL, IP) (3). Development of the concern of the international community with the rights of individuals and groups and the institutional mechanisms which have been set up for their protection.

INR 4408 Topics in International Law (IL, IP) (3). An intensive examination of selected topics in international law and relations among nations. Topics will vary according to the interests of the instructor and the students.

INR 4417 International Relations and International Law (IL, IP) (3). World order and international relations. Current trends in the theory and practice of international law. Progressive development of international law through international institutions, in such matters as intervention, use of force, human rights, and the law of the sea.

INR 4603 Approaches to International Relations (3). Analysis and conceptualization of the forces and conditions which influence relations among nations. Emphasis is on the provision of an analytical basis for the study of international relations. Prerequisite: INR 3003 or permission of instructor.

INR 4905 Independent Study (VAR). Directed independent research. Requires prior approval by instructor.

INR 4931 Topics in International Relations (3). Varies according to the instructor.

INR 4949 Cooperative Education In Social Sciences (3). A student majoring in one of the Social Sciences (Economics, International Relations, Political Science, Sociology, or Psychology) may spend one or two semesters fully employed in industry or government in a capacity relating to the major. Prerequisite: Permission of Cooperative Education Program and major department.

INR 5087 Ethnicity and the Politics of Development (3). This course examines the conceptual and substantive dimensions of ethnicity in the context of world politics and political development. The course will highlight ethnicity and ethnic groups as critical factors in North-South politics.

INR 5607 International Relations and Development (3). An analysis and conceptualization of the process of development as it takes place in the international context. Special attention given to the role of international organizations in promoting development and the manner in which differences in developmental levels conditions international relations.

INR 5906 Independent Study (VAR). Directed independent research. Requires prior approval by instructor.

INR 5935 Topics in International Relationa (3). Varies according to the instructor.

INR 6008 Colloquium in International Studiea (3). A systemic and International Relations theory supplemented with a consideration of legal, institutional and developmental issues. Prerequisite for MIB students: INR 6603 (World Politics).

INR 6605 Contemporary International System (3). Study of synthetic review of theories of development and approaches to the study of development as a process of social, political, and economic change. Prerequisites: CPO 5035 and ESC 5025.

INR 6975 Thesis (1-6). Registration for students working on their thesis. Prerequisites: All other coursework for the Master's in International Studies.

POS 4692 Law and the Process of Change (IL, IP) (3). An exploration of the role of law and legal institutions in the process of modernization, with particular emphasis on developing countries.

PUP 3206 International Law and the Environment (IL, IP) (3). Introduction to the growing body of international laws on environmental issues, with special emphasis on important cases. Recent attempts to coordinate and regulate activities affecting the global environment, with particular attention to the UN Environmental Agency.

International Studies

Susan Waltz, Director, International Relations Participating Departments: Lisandro Perez, Chair,

Anthropology/Sociology
Raul Moncarz, Chair Economics
Howard Rock, Chair, History
Charles MacDonald, Chair,
International Studies

Joel Gottlleb, Chair, Political Science

Degree: Master of Arts

The Master's program in International

Studies is an interdisciplinary program designed to prepare students for careers in government, the private sector, or international agencies. The program focuses on the broad issue of socioeconomic development and provides students with a sound basis in the politics, economics, sociology, and international aspects of development. The interdisciplinary character of the program ensures that the subject matter is treated as a whole. In addition. students may take their electives in related fields such as business. education, or public administration. Scholarships and assistantships are available

Admission Requirements: A 3.0 GPA in upper-level work from an accredited institution and a combined score of 1000 on the Graduate Record Examination. Foreign applicants must be eligible for further study in their own country and must demonstrate proficiency in the English language.

Degree Requirements: The Master of Arts in International Studies requires a minimum of 36 semester hours of course work at the graduate level. Students may also have to satisfy prerequisites at the undergraduate level for some courses in the program. Such courses will not be counted toward the 36 hour minimum requirement. (A maximum of six semester hours of graduate coursework may be transferred from other institutions of higher education subject to the approval of the Interdepartmental Advisory Committee).

Core Courses: (15 semester hours) CPO 5035 Politics of Development ECS 5025 Economic Problems of **Emerging Nations** 3 INR 5607 International Relations and Development POS 5706 Research Methodology 3 SYP 5447 Sociology of International Development 3 Electives 15

A minimum of five graduate level courses chosen from the departments of Economics, History, International Relations, Political Science, and Sociology/Anthropology. Elective courses may also be taken in other fields with the approval of the Director.

Thesis: (6) The thesis requirement will normally be undertaken after completion of a major portion of the coursework and the approval of a thesis proposal. The thesis must demonstrate an ability to organize existing knowledge, synthesizing the available information

from more than one discipline, and focusing that knowledge to illuminate a problem, policy, or theory in International Studies.

Language Requirement: Prior to graduation, all students must demonstrate competency in the use of a modern foreign language. Language courses cannot count for credit in the program.

Liberal Studies

Janat F. Parker, Associate Professor, Psychology, and Director of Liberal Studies

The Liberal Studies Program exposes the student to a wide range of courses offered by the College, while granting the opportunity to pursue an individualized program of studies under the Liberal Studies guidelines. These guidelines include six categories of courses: (1) Foundations of Liberal Studies, two courses to be taken as early as possible; (2) Interdisciplinary Colloquia, two courses involving faculty from several departments of the College, and dealing with interdisciplinary topics; (3) Scientific Analysis, two courses to expose the student to the scientific method and its application to problems in biology, chemistry, earth science, environmental science, and physics; (4) Humanistic Analysis, two courses dealing with the analysis of literary and historical texts or works of art and music; (5) Social Analysis, two courses to expose the student to the basic theories and methods of social scientists in the fields of anthropology, economics, international relations, political science, psychology, social-science-oriented history, and sociology; (6) Artistic Creation, one course in studio art or music, creative writing, or theatre to allow the student to experiment with his or her own creativity, and to experience the work of the artist

Students are free to choose any combination of courses within these guidelines. Under the advisoment of the Director of Liberal Studios, the student will be encouraged to pursue an individualized and focused program.

Degree: Bachelor of Arts

Lower Division Preparation
Recommended Courses: Arts and
Sciences concentration recommended
To qualify for admission to the program,
FIU undergraduatos must have met all
the lower division roquirements including
CLAST, completed sixty semoster hours,
and must be otherwise acceptable into
the program.

Upper Division Program

Required Courses: 33 semester hours Courses offered by any of the units of the College of Arts and Sciences, chosen in accordance with academic guidelines of the Program of Liberal Studies, to meet requirements in the four following areas: Scientific Analysis 6 Humanistic Analysis 6 Social Analysis 3 Artistic Creation Interdisciplinary Colloquia offered by the Liberal Studies Program Foundations of Liberal Studies

Electives: The remaining hours will be taken as electives.

Limitations: If the student wishes to obtain a second major concurrently, no more than three courses taken to meet the requirements of the other major may be counted towards the requirements of biberal Studies. If the student wishes to obtain a minor concurrently, no more than two courses taken to meet the requirements of the minor may be counted towards the requirements of Liberal Studies. No student is allowed to take more than six courses in one discipline.

Course Descriptions

Definition of PrefixesIDS-Interdisciplinary Studies; SSI-Social Sciences: Interdisciplinary

IDS 2930 Faculty Scholars Seminar (1). Provides freshman Faculty Scholars the opportunity to participate in the interdisciplinary study of significant themes. May only be taken twice.

IDS 3930 Foundations of Liberal Studies (3). This will be a broad synthesis of knowledge and methods in the Arts and Sciences taught from the perspective of different disciplines. Specific topics will be announced in advance.

IDS 3949 Cooperative Education in Liberal Studies (3) A student majoring in Liberal Studios may spend several semostors fully employed in industry in a capacity relating to the major.

IDS 4905 Independent Study (VAR). Cross-disciplinary topics for individual study and research to be chosen by External Dogree students in consultation with their faculty advisors.

IDS 4920 Liberal Studies Colloquia (3) Individual sections will study, from an interdisciplinary porspective, issues selected and presented jointly by College faculty. Specific topics will be announced in advance IDS 4930 Foundations of Liberal Studies (3). This will be a broad synthesis of knowledge and methods in the Arts and Sciences, taught from the perspective of different disciplines. Specific topics will be announced in advance.

IDS 4949 Cooperative Education In Liberal Studies (3). A student majoring in Liberal Studies may spend one or two semesters fully employed in industry in a capacity relating to the major.

SSI 3240 World Prospects and Issues (3). This course examines, from a multi-disciplinary point of view, specific global issues such as food, population, and arms control. The issues discussed may change from one semester to the next.

Labor Studies

For students interested in Labor Studies, a concentration is offered through the Liberal Studies program. A subset of Labor Studies courses is listed below.

Course Descriptions

Definition of Prefixes LBS - Labor Studies

LBS 4001 Introduction to Labor Studies (3). History and development of the labor movement, with emphasis on union development as a response to industrialization and technological change. Includes the structure and functioning of modern unions, the development of modern technology, the industrial working class, and the impact of the rural-urban shift of labor.

LBS 4101 Theories in the Labor Movement (3). This course deals with theories which have attempted to explain the origins, developments, and functioning of the labor movement.

LBS 4210 Women and the Labor Movement (3). The role of women in the work force and in unions with historical, social, and economic omphasis.

LBS 4501 Industriel and Labor Relations Law (3). Studies the history and current functioning of labor law with special emphasis upon the private sector.

LBS 4900 Directed Study in Labor Studies (30). Supervised reading and/or field research and training.

LBS 5464 Fact Finding and Arbitration (3). Study of labor dispute resolution with emphasis on grievances, fact-finding, and arbitration.

Linguistics

Virginia Gathercole, Associate Professor and Director, English Lynn M. Berk, Associate Professor, English

laabel Castellanos, Assistant
Professor, Modern Languages

Tometro Hopkins, Instructor, English John B. Jensen, Associate Professor, Modern Languages

Peter A. Machonis, Assistant Professor, Modern Languages

Degree: Master of Arta

Admission Requirements: Applicants must meet the University's graduate general admissions requirements; a GRE score of 1000 on the verbal and quantilative sections or an undergraduate GPA of 3.0 will be required. In addition, non-native speakers of English must submit a TOEFL score of 600.

Degree Requirements:

The Master of Arts in Linguistics requires 36 graduate hours in Linguistics, distributed as follows:

1. Required Courses: (21 semester

	Q. 000. (2. 0000.0.	
hours)		
LIN 5045	Introduction to	
	Linguistics	3
LIN 5382	English Syntax	3
LIN 5206	Phonetics	3
LIN 6222	General Phonology	
	(Prerequisite: LIN 5206)	3
LIN 6342	Advanced Syntax	
2 00.2	(Prerequisite: LIN 5341)	3
LIN 6805	Semantics	•
LIIT COOO	(Prerequisite LIN 6342)	3
LIN 5146	Historical and	•
LIN 3140	Comparative Linguistics	. 1
	(Prerequisite: LIN 5206)	3
11115407	Or	
LIN 5107	History of the English	
	Language	
	or	
FRE 5840	History of the French	
	Language	
	or	
SPN 5840	History of the Spanish	
	Language	

2. The remaining hours must be selected from any graduate Linguistics offerings, including courses in the following areas: Acoustic Phonetics
General Morphology and Syntax Dialectology
Sociolinguistics
Psychology of Language
Language Acquisition
Second Language Acquisition
Language Contact
Studies in Bilingualism
Applied Linguistics

Error Analysis
Research Methods in Linguistics
Structure of a Non-Indo-European
Language
Special Topics in Linguistics
Seminar (various topics)
Thesis (maximum of six hours)

Linguistic courses are taught in the Departments of English and Modern Languages. See those sections for specific course descriptions.

Foreign Language Requirement: Each student will be required to take a minimum of five semester hours of formal study of a foreign language not already known by the student or of Middle or Old English. The language to be studied will be decided on in consultation with the student's advisor.

Examination Requirement: Students will be required to take a written comprehensive exam in Linguistics.

Thesis/Non-Thesis Options: Students may elect to follow a thesis or a non-thesis option. Those electing to write a thesis will take six hours credit in thesis research as part of their required 36 hours. When completed, the thesis will be defended orally before a committee made up of three faculty members, including the thesis director. Those electing to follow the non-thesis options will take all 36 hours in non-thesis courses.

Mathematics

Dev K. Roy, Associate Professor and Chairperson
Gerardo Aladro, Assistant Professor
Mark L. Cooper, Assistant Professor
Domitila Fox, Instructor
Susan Gorman, Instructor
Peter Holden, Assistant Professor
Steven M. Hudson, Assistant Professor
Mark Leckband, Associate Professor
Dlana McCoy, Instructor
Abdelhamid Mezlani, Assistant

Professor Richard Nadel, Instructor Thanases Pheldas, Assistant Professor Taje Ramsamujh, Assistant Professor David Ritter, Associate Professor Michael Rosenthal, Instructor Richard L. Rubin, Associate Professor Anthony C. Shershin, Associate Professor

Minna Shore, Instructor
James F. Silfker, Associate Professor
Wille E. Williams, Associate Professor
John Zwelbel, Assistant Professor

Mathematical Sciences

Degree: Bachelor of Science

Lower Division Preparation

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program. Required Courses: Calculus including multivariable calculus; introductory course in computer programming; linear algebra; differential equations.

Remarks: If an entering major student has not met a lower division requirement, the equivalent course must be taken at the University, and will be counted as a non-major elective. The equivalent courses are MAC 3311, MAC 3312, MAC 3313 (Calculus); CGS 3420 (FORTRAN) or COP 3210 (PASCAL); MAS 3105 (Linear Algebra); and MAP 3302 (Differential Equations).

Upper Division Program
Required Courses

nequired Cou	rses	
COP 3400	Assembly Language	
	Programming	3
COP 3212	Intermediate	
	Programming	3
MAD 3104	Discrete Mathematics	3
MAD 3401	Numerical Analysis	3
MAD 3512	Introduction to the	
	Theory of Algorithms	3
MAP 4401	Advanced Differentia	1
	Equations	3
STA 3163-4	Statistical Methods	
	l and II	3-3

In addition, two courses from the

following list:		
COP 3530	Data Structures	3
MAA 4402	Complex Variables	3
MAD 3305	Graph Theory	3
MAP 3103	Mathematical Modeling	3
MHF 4302	Mathematical Logic	3
STA 5446	Probability Theory	3

Electives: The balance of the 60 semester hour requirement for graduation may be chosen from any courses in the University approved by the student's advisor.

Remarks: The following courses are not acceptable for credit toward graduation, unless a student has passed the course before declaring a Mathematical Sciences major: MAC 3233, STA 3013, STA 3122-23, STA 3132, and OMB 3150 (College of Business Administration).

Minor in Mathematical Sciences Required Courses: MAC 3311-2-3. Calculus I,II,III (or equivalent). Four courses from those approved for the Mathematical Sciences Major program. MAP 3302 and MAS 3105 may be included among these four courses. A grade of 'C' or higher is necessary for the minor. Remarks: No mathematical sciences courses (Computer Science.

Mathematics, or Statistics) can be applied to more than one minor, nor can courses used to satisfy major requirements be used towards minor requirements. In the case where a

mathematical science course is required for a major in one area and a minor in another, the student should see his or her advisor for an appropriate substitution for the requirement of the minor.

Master of Science in Mathematical Sciences

Admission: The following are in addition to the University's graduate admission requirements

 Bachelor's degree in mathematics, applied mathematics or mathematical sciences from an accredited university or college.

2. A 'B' average or higher in upper division mathematics courses.

 Graduate Record Examination taken within the past five years, with at least 650 on the quantitative portion and 500 on each of the other two parts.

4. Three letters of recommendation concerning the candidate's achievement and potential, from persons familiar with the candidate's previous academic performance.

5. Approval of the Graduate Committee.

Core Courses

List A:

The student must choose three courses form each of the following lists.

144 4 5546	Transferring to Deal		
MAA 5616	Introduction to Real	_	
	Analysis	3	
MAP 5236	Mathematical		
	Techniques of		
	Operations Research	3	
MAS 5215	Number Theory	3	
STA 5446	Probability Theory	3	
STA 6807	Queuing and	•	
3 IA 6607		_	
	Statistical Models	3	
List B:			
		_	
MAD 5405	Numerical Methods	3	
MAP 5407	Methods of		
	Applied Analysis	3	
MAS 5415	Applied Linear		
	Algebra	3	
COT 5420	Theory of		
001 0420	Computation I	3	
COT 6400	Analysis of Algorithms	3	
Flectives: (6 s	emester hours)		
Electives: (6 semester hours)			

The student must choose six hours of graduate level coursework in computer science, economics, engineering, mathematics, physics or statistics, with the prior approval of the Mathematics Graduate Committee

Master's Project

The student will prepare an expository

paper under the direction of a faculty member, who will assign the grade. Successful completion of the master's project requires a grade of 'B' or higher, as well as approval of a committee consisting of three mathematics faculty (including the director)

Remarks: The coursework must be completed with a 'B' average or higher and a grade of 'C' or higher in each course. A maximum of two courses may be transferred into the program from outside the University, subject to the approval of the Graduate Committee.

Mathematics

Degree: Bachelor of Science

Lower Division Preparation

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program. Required Courses: Calculus including multivariable calculus; introductory course in computer programming; linear algebra; differential equations.

Remarks: If an entering mathematics major student has not met a lower division requirement, the equivalent course must be taken at the University, and will be counted as a non-major elective. The equivalent courses are: MAC 3311-MAC 3312-MAC 3313 (Calculus); CGS 3420 (FORTRAN) or COP 3210 (PASCAL); MAS 3105 (Linear Algebra); and MAP 3302 (Differential Equations).

Upper Division Program Required Courses

MAA 3200	Introduction to	
	Analysis	3
MAA 4211	Advanced Calculus	3
MAS 4301	Algebraic Structures	3
STA 3321	Mathematical	
	Statistics I	3
In addition, the	ree courses from each o	ſ

In addition, three courses from each of the following lists.

List 1		
MAD 4203	Introduction to	
	Combinatorics	3
MAA 4402	Complex Variables	3
MTG 3212	College Geometry	3
MAS 5215	Number Theory	3
MAA 4212	Topics in	
	Advanced Calculus	3
MAS 4302	Topics in	
	Algebraic Structures	3
MTG 4302	Topology	3
List 2		

Advanced

Differential Equations 3

MAP 4401

College of Arts and Sciences / 35		
MAD 3305	Graph Theory	3
MAP 3103	Mathematical	
	Modeling	3
STA 3322	Mathematical	
	Statistics II	3

Numerical Analysis

Mathematical Logic

3

Electives: The balance of the 60 semester hour requirement for graduation may be chosen from any courses in the University approved by the student's advisor.

Remarks: The following courses are not acceptable for credit toward graduation, unless a student has passed the course before declaring a Mathematics major: MAC 3233, STA 3013, STA 3122-23, STA 3132, and QMB 3150 (College of Business Administration).

Minor In Mathematics

MAD 3401

MHF 4302

Required Courses: MAC 3311-2-3 Calculus I-I-III (or equivalent). Four courses from those approved for the Mathematics Major program. MAP 3302 and MAS 3105 may be included among these four courses. A grade of 'C' or higher in each of these courses is necessary for the minor.

Remarks: No mathematical sciences courses (Computer Science, Mathematics, Statistics) can be applied to more than one minor, nor can courses used to satisfy major requirements be used towards minor requirements. In the case where a mathematical sciences course is required for a major in one area and a minor in another, the student should see his or her advisor for an appropriate substitution for the requirement of the minor.

Course Descriptions

Definition of Prefixes

MAA-Mathematics, Analysis; MAC-Mathematics, Calculus and Pro-Calculus; MAD - Mathematics, Discrete; MAP-Mathematics, Applied, MAS-Mathematics, Algebraic Structures; MAT Mathematics, General, MGF-Mathematics, General and Finite, MHF-Mathematics, History and Foundations; MTG - Mathematics, Topology and Goometry

MAA 3200 Introduction to Analysis (3). Topics include naive set theory.

functions, cardinality, sequences of real numbers and limits Emphasis on formal proofs Prerequisite: MAC 3313.

MAA 4211 Advanced Calculus (3). An intense study of the loundations of calculus. Topics may include: the real number system, continuity, differentiation, Riemann Stieltjes integration, and series of functions.

Note: The student must complete MAA 3200 before attempting this course. Prerequisites: MAC 3313, MAS 3105 and MAA 3200.

MAA 4212 Topics In Advanced Calculus (3). A sequel to MAA 4211. Topics may include: theory of integration; analysis in several variables; and Fourier series. Prerequisite: MAA 4211.

MAA 4402 Complex Variables (3). An introduction to complex variables, beginning with the algebra and geometry of the complex number system. Topics include: complex functions; analytic functions; Cauchy's theorem and its consequences; Taylor and Laurent series; residue calculus; evaluation of real integrals and summation of series; conformal mapping. Prerequisites: MAC 3313, and MAP 3302 or MAA 4211.

MAA 5616 Introduction to Real Analysis (3). Lebesgue Measure and Integral with applications to Integral Transforms. Prerequisite: MAS 3105, MAA 4211, MAP 4401 or MAA 4212.

MAC 2132 Pre-calculus Mathematics (3). Topics to be covered include: functions, exponential and logarithmic functions, trigonometry and the basics of analytic geometry. Prerequisite: Two years of high school algebra.

MAC 3233 Calculus For Business (3). A one semester introduction to the basic notions of calculus. Specific topics include: Differential Calculus using polynomial, exponential and logarithmic functions, and its application to optimization; integral calculus with area and probability applications. Prerequisite: MAC 2132 or working knowledge of algebra.

MAC 3311-MAC 3312 Calculus I and II (3-5). An introduction to basic concepts, computations and applications in calculus. The first course deals with basic concepts, techniques and applications of the derivative, and an introduction to the integral. The second course deals with integration techniques and applications of the integral, infinite series, and Taylor series. Prerequisite: Trigonometry or MAC 2132.

MAC 3313 Multiverleble Calculus (3). This course deals with the differential and integral calculus of real valued multivariable functions. The topics include: directional and partial derivatives, gradients, and their applications; differential calculus of vector valued functions; multiple, iterated, line, and surface integrals. Prerequisite: MAC 3312 or equivalent.

MAD 3104 Discrete Mathematics (3). Sets, functions, relations, permutations, and combinations, propositional logic, matrix algebra, graphs and trees, Boolean algebra, switching circuits. Prerequisites: COP 3210 or CGS 3420 and MAC 3311.

MAD 3305 Graph Theory (3). An introduction to the study of graphs. Topics include the lollowing: paths and circuits, connectedness, trees, shortest paths, networks, planar graphs, the coloring of graphs, and directed graphs. Applications of graphs to computer science will be discussed. Prerequisites: COP 3210 or CGS 3420 and either MAS 3105 or MAD 3104.

MAD 3401 Numerical Analysis (3). Basic ideas and techniques of numerical analysis. Topics include: finite differences, interpolation, solution of equations, numerical integration and differentiation, applications, introduction to applied linear algebra. This course will make extensive laboratory use of the computer facility. Pererequisites: COP 3210 or CGS 3420 and MAC 3312.

MAD 3512 Theory of Algorithms (3). Strings, formal languages, linite state machines, Turing machines, primitive recursive and recursive functions, recursive unsolvability. Prerequisite: MAD 3104.

MAD 4203 Introduction to Combinatorics (3). A survey of the basic techniques of combinatorial mathematics. Topics will include the Pigeonhole Principle, Binomial Coefficients, Inclusion-Exclusion, Recurrence Relations, and Generating Functions. Prerequisites: MAC 3313 or both MAC 3312 and MAD 3104.

MAD 5405 Numerical Methoda (3). Advanced ideas and techniques of numerical analysis for digital computation. Topics include: linear and non-linear systems, ordinary differential equations, continuous system modeling techniques, and languages. Prerequisites: MAS 3105 and MAP 3302.

MAP 3103 Mathematical Modeling and Applications (3). A course to provide an understanding of the use of mathematical models in the description of the real world. Basic principles in the philosophy of formal model building as well as specific models will be considered. Prerequisites: MAS 3105 and either MAC 3313 or MAP 3302.

MAP 3104 Topics in Mathematical Modeling (3). A sequel to MAP 3103. In-depth study of techniques listed for MAP 3103. Prerequisite: MAP 3103. MAP 3302 Differential Equations (3). An introduction to differential equations and their applications, based upon a knowledge of calculus. Topics to include: initial value problems of the first order, numerical solutions, systems of differential equations, linear differential equations, Laplace transforms, series solutions. Perequisite: MAC 3312.

MAP 4401 Advanced Differential Equations (3). A second course in differential equations. Topics may include: Bessel functions and other special functions arising from classical differential equations, Sturm-Liouville problems, partial differential equations, transform techniques. Prerequisites: MAP 3302 and MAC 3313.

MAP 5236 Mathematical Techniques of Operations Research (3). This course surveys the mathematical methods used in operations research. Topics will be chosen from linear programming, dynamic programming, integer programming, network analysis, classical optimization techniques, and applications such as inventory theory. Prerequisite: MAP 5117 and MAS 3105 and either CGS 3420 or COP 3210.

MAP 5407 Methods of Applled Analysis (3). Convergence, fixed point theorems, application to finding roots of equations, normed function spaces, linear operators, applications to numerical integration, differential and integral equations. Prerequisites: MAA 4211, MAP 3302, and MAS 3105.

MAS 3105 Linear Algebra (3). An introduction to the topics in linear algebra most often used in applications. Topics include: matrices and their applications; simultaneous linear equations and elementary operations; linear dependence; vector spaces; rank and inverses; inner products and 'best' approximations; numerical solutions of simultaneous linear equations; eigenvalues and eigenvectors; iterative methods for calculating eigenvalues; and systems of linear equations. Prerequisite: MAC 3312.

MAS 4301 Algebraic Structures (3). An introduction to abstract mathematical structures of modern algebra. Fundamental concepts of groups, rings, and fields will be studied. Note: the student must complete MAA 3200 before attempting this course. Prerequisites: MAS 3105 and MAA 3200.

MAS 4302 Topics in Algebraic Structures (3). A sequel to Algebraic Structures. Topics may include: a continuation of the study of groups, rings and/or fields; polynomial domains; Euclidean domains; and Galois theory. Prerequisite: MAS 4301.

MAS 5145 Applied Linear Algebra (3). Concepts of finite dimensional vector spaces. Theorems that have infinite dimensional analogues and those with important applications are emphasized. Prerequisites: MAS 3105 and MAA 3200.

MAS 5215 Number Theory (3). Topics to be discussed are selected from the following: congruences, Diophantine equations, distribution of primes, primitive roots, quadratic reciprocity, and classical theorems of number theory.

MAT 2949 Cooperative Education In Mathemetical Sciences (1-3). One semester of full-time supervised work in an outside organization taking part in the University Co-op program. A written report and supervisor evaluation will be required of each student. Prerequisites: Calculus I and COP 3210.

MAT 3905 Independent Study (VAR), Individual conferences, assigned readings, and reports on independent investigations.

MAT 3930 Special Topics (VAR). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

MAT 3949 Cooperative Education in Mathematical Sciences (1-3). One semester of full-time supervised work in an outside organization taking part in the University Co-op Program. Limited to students admitted to the Co-op Program. A written report and supervisor evaluation will be required of each student. Prerequisites: Calculus II and COP 3522 or COP 3212.

MAT 4905 Independent Study (VAR). Individual conferences, assigned readings, and reports on independent investigations.

MAT 4930 Special Topics (VAR). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered

MAT 4943 Mathematical Sciences Internship (VAR). A special program to encourage students to got on-the-job experience in computer sciences, statistics, or mathematics in an industrial enterprise, governmental agency or other organization. Requirements: minimum grade of 'B' or higher in all courses in the major area, and approval by Departmental Internship Committee. Application is required at least one term in advance of registration for this course.

MAT 4949 Cooperative Education in Mathematical Sciences (1-3). One semester of full-time supervised work in an outside organization taking part in the University Co-op Program. Limited to students admitted to the Co-op Program. A written report and supervisor evaluation will be required of each student. Prerequisites: Calculus II, a statistics course, and COP 3120.

MAT 5907 Independent Study (VAR). Individual conferences, assigned reading, and reports on independent investigations.

MGF 1202 Finite Mathematics (3). Study of concepts and applications involving finite mathematical processes such as sets, combinatorial techniques, formal logic, discrete probability, linear systems, matrices, linear programming. Prerequisite: Working knowledge of high school algebra.

MHF 4302 Mathematical Logic (3). A study of formal logical systems and their applications to the foundations of mathematics. Topics to be selected from the following: definition of mathematical proofs; set theory; analysis formalized with the predicate calculus; theorem of Godel and Church; recursive function theory; and idealized computers.

Prerequisite: MAA 3200 or MAD 3512.

MTG 3212 College Geometry (3). A study of the basic structure of Euclidean geometry together with topics from advanced Euclidean geometry and non-Euclidean geometry. Prerequisite: High school geometry.

MTG 4302 Topology (3). An introductory course in topology requiring a prerequisite knowledge of calculus. Topics to be discussed will be selected from the following topological spaces, metric spaces, continuity, completeness, compactness, separation axioms, products spaces, subspaces, convergence, and homotopy theory Prerequisites: MAC 3313, MAS 3105, and MAA 3200.

STA 4603-STA 4604 Mathematical Techniques of Operations Research I and II (3-3). An introduction to those topics in mathematics associated with studies in operations research Topics include the following 'linear programming and related topics, dynamic programming, queuing theory, computer simulation, network analysis, inventory theory, decision theory, integer programming Prirequisites' MAS 3105 and either STA 3033 or STA 3322

Modern Languages

Reinaldo Sanchez, Professor and Chairperson Irmenia Aragon, Instructor, (North Miami Campus)

Isabel Castellanos, Associate Professor

Rodolfo Cortina, Associate Professor James O. Crosby, Professor Leonel A. de la Cuesta, Assistant Professor

Danielle Johnson-Cousen, Associate
Professor

Elena de Jongh, Assistant Professor Yvonne Guers-Villate, Professor John B. Jensen, Associate Professor Peter A. Machonis, Associate Professor

Ramon Mendoza, Professor (North Miami Campus)

Ana Roce, Assistant Professor Andree Stayman, Instructor Marcelle Welch, Associate Professor Florence Yudin, Professor Malda Watson Espener, Associate Professor

Degree: Bachelor of Arts

Lower Division Preparation Required Courses: Eighteen semester hours of elementary and intermediate foreign language or equivalent proliciency. If these courses are not completed prior to entry to the University, they will be required as part of the upper division program as nonmaior electives.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program: (60 semester hours)

Required Courses Foreign Language

Electives

30 semester hours 30 semester hours

Students in the Toacher Preparation Program carry two majors: Modern Language and Modern Language Education and must request admission to both programs (Students interested in teacher certification should contact the College of Education at 554 2721)

Requirements For All Modern Language Majors

All majors must have a designated laculty advisor, and all are required to take 30 semester hours in the Department of Modern Languages, with a gradh of 'C' or higher

Requirements For Spanish Majors
To undertake a major in Spanish, a
student must demonstrate minimum
preficiency in the language. This may be
done by a written examination.

administered by the Department, or by completing SPN 3301 (Non-native speakers of Spanish) or SPN 3341 (Native speakers). SPN 3302 must be part of the 30 credit hours of upper division work taken (unless the student is exempted by examination), and credit hours must be distributed according to one of the following plans:

	Α	В	С
SPN 33021	3	3	3
Literature courses	9	9	6
Linguistic courses	9	6	9
Culture courses		3	3
Departmental electives	9	9	9

¹Unless exempted by examination, in which case the student has three additional hours of electives.

Introduction to General Linguistics (LIN 3010 or equivalent) must be taken before other linguistics offerings; otherwise, there is no prescribed sequence of courses for the major.

Requirements For French Majors

The requirements for a major in French are three or four literature courses; one civilization course; one French linguistics course. The remaining credits should be taken in language courses, such as RF 3410, FRE 3420, FRE 3421, FRE 3780, FRT 3800, FOT 3810 unless the student can demonstrate proficiency in these areas. A student is also generally expected to take an introductory course to literature such as FRW 3200 before registering for upper level literature courses.

Requirements For Other Language Majors

A major in a language other than Spanish or French may take only 21 credits in the major target language, but completion of at least two semesters of a second foreign language is recommended. There is no fixed sequence of courses required, and a student may enroll in any course offered for majors, provided he or she meets the course prerequisites.

Minor in French Language and Culture

A student majoring in another discipline may earn an academic minor in French Language and Culture by taking 1) twelve semester hours of course work in French language FRE 3410, FRE 3420/3421, FRE 3780, 2) three semester hours in French Civilization and Culture FRE 3500 or FRE 4501, 3) three semester hours of restricted electives courses in French linguistics, French Translation Skills or Introduction to Literature, FRW 3200.

Minor in Portuguese

A student majoring in another discipline may earn an academic minor in Portuguese by taking 12 semester hours of course work in the language at the level of POR 3420 or above, and six additional hours in Portuguese or in approved courses in a related discipline, such as linguistics or the civilization of Portuguese-speaking peoples.

Minor in General Translation Studies In order to obtain an academic minor in General Translation Studies, a student takes 12 semester hours in translation/interpretation courses (FOT, FRT, or SPT prefix), with grades of B or better, and nine additional hours in courses of immediate relevance to the program, to be approved by the Director of the program. Normally these will be selected from among offerings in Political Science, Economics, International Relations, Sociology, Anthropology, Computer Science or Modern Languages. At least two of them should be taken outside of Modern Languages, Courses in basic and intermediate instruction shall not be counted for the minor.

Minor In Spanish Language and Culture

Required Credits for Minor: 15 credits of Core Courses and three credits of electives. Total: 18 semester hours.

Advanced Spanish

Core	Course
SPN	3401

	Conversation	
	(non-natives)1	3
SPN 3301	Review Grammar/	
	Writing I (non-natives)2	3
	or	
SPN 3341	Advanced Spanish for	
	Native Speakers ²	
SPN 3302	Review Grammar and	
	Writing II	3
SPN 3820	Dialectology	3
SPN 4500	Spanish Culture	3
Elective Course	es: One 3-credit course	
selected from a	mong the following ³	
SPN 3780	Phonetics ⁴	3
SPW 3930	Special Topics	3
SPT 3800	Introduction to	
	Translation Skills	3
SPN 3013	Language Skills for	
	Professional Personnel	3
SPN 3440	Spanish for Business	
	Composition	3
SPN 3520	Spanish American	
	Culture	3

1Native speakers will take SPN 3520 Spanish American Culture or SPN 4501 Topics in Civilization and Culture instead of Advanced Spanish Conversation. ² Can be substituted for another course in Translation Skills, Linguistic or Spanish Literature, with permission of Spanish advisors only. ³Or another advanced course in the Department with the approval of the students' faculty advisor. ⁴Can be replaced by SPN 4790 (Contrastive Phonology).

Basic Language Instruction
The department offers three-semester
sequences of instruction in beginning
and intermediate Arabic, Chinese,
French, German, Hebrew, Italian,
Japanese, Portuguese, Spanish,
Russian, and beginning instruction in
other languages.

The courses in basic language instruction are designed primarily for persons wishing to acquire conversational ability in a foreign language; but they provide training in all four language skills listening, speaking, reading, and writing. Students are advised to consult the Departmental course listing for specific sections.

Master of Arts in Hispanic Studies

To be admitted into the Master's degree program, a student must:

I. Hold a Bachelor's degree in Modern Languages, Linguistics or one of the Social Sciences as related to the Hispanic world from an accredited university or college, or its equivalent;

2. Have a 3.0 GPA or higher during the last two years of the student's undergraduate program and a combined score (quantitative and verbal) of 1,000 or higher on the GRE. Students who have not taken the GRE may enroll in graduate courses in the cooperating departments; however, admission to the graduate program is conditional upon taking and receiving a score of 1,000 on the GRE within six months of the beginning of study;

Have the ability to speak both Spanish and English with near-native

fluency;

4. Submit two letters of recommendation, preferably from persons in the academic community who are in a position to comment on the applicant's suitability for graduate work;

5. Receive approval of the departmental graduate committee. Students with deficiencies will be advised to complete certain course work before beginning graduate work.

Degree Requirements:

The Master's degree program consists of 33 semester hours of graduate level work. A maximum of six credits of graduate course work may be transferred into the program from other institutions, subject to the approval of the departmental graduate committee. Six core courses and three elective courses are required at the 5000-and 6000-level.

Core Courses:		
LIN 5934	Special Topics in	
	Linguistics	3
FOT 5805	Translation and	
	Interpretation Arts	3
SPN 6505	Spanish Culture	3
SPN 5525	Spanish American	
	Culture	3
SPN 6535	The Hispanic Presence	
	in the United States	3

One course at the graduate level on Latin American sociology, anthropology, political science, or history, to be taken outside of the department.

The following are examples of courses that will satisfy this requirement. Each semester the department prepares a list of appropriate courses from among the offerings of the cooperating departments, which should be consulted prior to registration.

SOC 5338	Sociology of	
	International	
	Development	3
CPO 5035	The Politics of	
	Development	3
HIS 5910	Urbanism in Latin	
	America	3
ECS 5005	Comparative	
	Economic Systems	3
ECS 5025	Economic Problems of	
	Emerging Nations	3
ECS 5405	Economics of Latin	
	America	3
CYP 6055	Theories and Research	
	in Acculturation and	
	Multiculturalism	3
CYP 6076	Psychology of	
	Crosscultural	
	Sensitization in a	
	Multicultural Context	3
DEP 6145	Culture and Childhood	3
DEP 6450	Culture and Aging	3
		-

Electives: A student must take at least nine graduate credits of electives from courses offered by the department, such as French or Spanish linguistics, literature and translation/interpretation, or from those offered by the departments of History, Political Sciences, Sociology/Anthropology, Economics, and Psychology.

Third Language: Students will be required to speak either French, Portuguese, or Haitian Creole at a level of general communication. Students who do not meet this requirement upon admission must begin their study of the third language in their first semester of study.

Graduation Requirements: To receive the Master's degree in Hispanic Studies, students must complete all the course work with a 3.0 GPA or higher, and must receive at least a 'B' in each of the core

courses. After having completed 27 graduate credits (core and elective courses), students will have the option of writing a thesis (equivalent to six credits) or taking two courses or more and submitting a research paper. The thesis will be presented to an ad hoc committee chosen by the student and his or her advisor.

Course Descriptions

Definition of Prefixes

ARA-Arabic Language; CHI-Chinese Language: FOL-Foreign Languages: FOT-Foreign Languages in Translation; FOW-Foreign Languages, Comparative Literature: FRE-French Language: FRT-French Translation; FRW-French Literature (Writings); GER-German Language; GET-German Translation; HBR -Hebrew; ITA-Italian Language; ITT-Italian Translation; JPN-Japanese Language; LIN-Linguistics; POR-Portuguese Language: POW-Portuguese Literature (Writings); PRT-Portuguese Translation; RUS-Russian Language; SPN-Spanish Language; SPT-Spanish Translation; SPW-Spanish Literature (Writings).

(See English listing for additional Linguistics courses.) Application of basic language skills.

ARA 3130 Arable I (5), Provides training in the acquisition and application of basic language skills.

ARA 3131 Arable II (5). Provides training in the acquisition and application of basic language skills.

ARA 3210 Intermediate Arabic (5). Provides intermediate training in the acquisition and application of basic language skills.

CHI 3130 Chinese I (5). Provides training in the acquisition and application of basic language skills.

CHI 3131 Chinese II (5). Provides training in the acquisition and application of basic language skills.

CHI 3210 Intermediate Chinese (5). Provides intermediate training in the acquisition and application of basic language skills.

FOL 1000 Elementary Foreign Language (3). Emphasis on oral skills, contemporary language and culture Content onented to students with specific professional or loisure interests. For languages not often taught. This course is not part of a series. No prorequisites FOL 3013 Language Skills for Professional Personnel (3). The course is geared to the special linguistic needs of community groups (medical, business, technical, etc.).

FOL 3732 Romance Linguistics (3). The common and distinctive Romance features. Survey of linguistic geography and internal/external influences.

FOL 3905 Independent Study (3). Project, field experience, readings, or apprenticeship.

FOL 3930 Special Toples (3). Readings and discussion of literary/linguistic topics to be determined by students and teacher.

FOL 3949 Cooperative Education In Modern Languages (3). A student majoring in one of the Humanities (English, History, Modern Languages, Visual Arts or Performing Arts) may spend one or two semesters fully employed in industry or government in a capacity relating to the major Prerequisite: Permission of Cooperative Education Program and major department.

FOL 3955 Foreign Study (12). Intermediate level. One semester full-time credit in foreign residence and study. Individual cases will be evaluated for approval.

FOL 4905 Independent Study (1-3). Project, field experience, readings, or research.

FOL 4930 Special Topics (3). Independent readings, research, or project

FOL 4935 Senior Seminar (3). Topics and approach to be determined by students and instructor.

FOL 4949 Cooperative Education in Modern Languages (3). A student majoring in one of the Humanities (English, History, Modern Languages, Visual Arts or Performing Arts may spend one or two semesters fully employed in industry or government in a capacity related to the major Prerequisite. Permission of Cooperative Education Program and major department.

FOL 4958 Foreign Study: Advanced Language Literature (12). Full semester credit for foreign residence and study/work (Approval of Department required)

FOL 5735 Romance Linguistics (3). The common and distinctive Romance

features. Survey of linguistic geography and internal/external influences.

FOL 5906 Independent Study (VAR). Project, field experience, readings, or research.

FOT 2120 Literature in Translation (3). Masterpieces of French literature in English. Comparative use of the original text. Discussion and interpretation.

FOT 3800 Translation/Interpretation Skills (3). Emphasis on basic principles and practice application.

FOT 3810 Creative Writing/Translation (3). Training through non-structured writing. Examination of various approaches to the problems and objectives of creative translation.

FOT 4130 European Literature in Translation (3). For students proficient in more than one foreign language. Content and focus to be determined by student and instructor.

FOT 4801 Professional Translation/ Interpretation (3), Techniques and resources for professional translation and interpretation. Prerequisite: FOT 3800.

FOT 5125 Literature in Translation (3). Masterpieces of world literature. Open to students who are proficient in more than one language.

FOT 5805 Translation/Interpretation Arta (3). The language barrier and translation and interpretation. Types, modes, and quality of T/I: philological, linguistic, and socio-linguistic theories. History of T/I from Rome to date. The impact of T/I on Inter-American developments. Prerequisite: Graduate standing or permission of instructor.

FOW 3520 Prose and Society (3). The dynamics of participation and alienation between prose writers and their environment.

FOW 3540 Bloultural Writings (3). Experiment in linguistic pluralism. Content and locus to be determined by the international community.

FOW 3580 Intellectual History (3). The interaction or dissociation among writers in a critical historical period. Study of primary sources and their contemporary evaluations.

FOW 3582 Literature of Reform (3). The consciousness of change in verbal art.

FOW 3584 Literature of Repression (3). The consciousness of constraints, their adoption and/or rejection in verbal art.

FOW 4390 Genre Studles (3). Examination of a single literary form (e.g. short story, poetry), or the study of interaction between literary types (e.g. novel and drama).

FOW 4590 Creative Modes (3).
Discussion of a single mode or a plurality of epoch styles such as classical/baroque, realism/surrealism. The peculiar/common features of expressive media.

FOW 4790 The Literary Generation (3). The real and apparent shared ideals of an artistic generation, its influence and range.

FOW 4810 Problems in Reading and Interpretation (3). The identification and appreciation of techniques for sensitive reading and discussion of literary texts.

FOW 5395 Genre Studies (3). Examination of a single literary form (e.g. short story, poetry), or the study of interaction between literary types (e.g. novel and drama).

FOW 5545 Bloultural Writings (3). Experiment in linguistic pluralism. Content and focus to be determined by the international community.

FOW 5587 Comparative Studies (3). Cross-over and distinctiveness in a multi-language problem, period, or aesthetic.

FOW 5934 Special Topics in Language/Literature (3). Content and objectives to be determined by students and teacher.

FOW 5938 Graduate Seminar (3). Topic and approach to be determined by students and instructor. (Approval of the Department required.)

FRE 2200 Intermediate French (5). Provides intermediate training in the acquisition and application of basic language skills.

FRE 2270 Foreign Study (12). Intermediate level. One semester fulltime credit for foreign residence and study. Individual cases will be evaluated for approval.

FRE 3000 Elementary French (3). Emphasis on oral skills, contemporary language and culture. Content oriented to students with specific professional or leisure interests. This course is not part of a series. No prerequisites.

FRE 3013 Language Skills for Professional Personnel (1-3). The course is geared to the special linguistic needs of community groups (medical, business, technical, etc.).

FRE 3240 Intermediate French Conversation (1). This course is designed to help students maintain and increase their conversational ability in the language while unable to continue the regular sequence. May be repeated twice. Prerequisite: FRE 1121 or equivalent.

FRE 3410 Advanced French Conversation (3). To develop oral proficiency skills and a greater awareness of French culture.

FRE 3415 Communication Arts (3). Oral interpretation and dramatic reading. Original and non-original texts will be the content of the course. Study of shared modes of experience and their individual linguistic expression in an acquired language.

FRE 3420 Review Grammar/Writing I
(3). Practice in contemporary usage through selected readings in culture and civilization. Development of writing and speaking ability in extemporaneous contexts. The course will be conducted exclusively in the target language.

FRE 3421 Review Grammar/Writing II (3). Examination of grammatical theory; discussion of the modern essay. Practice in the detection and correction of errors in usage. The course will focus on current international events as content for informal talks and composition.

FRE 3440 Business French (3). Introduces the minor and non-major to the culture, economy, and commerce of modern-day France. Extensive practice in business writing and communication. Conducted in French. Prerequisite: FRE 1121.

FRE 3500 Civilization I (3). Open to any student who understands the target language. The development of a particular civilization. Emphasis on the evolution of a society, its ideas and its values.

FRE 3700 Introduction to General Linguistics (3). Examination and synthesis of the concepts and perspectives of major contributions to language theory.

FRE 3740 Applied Linguistics (3). Examination of available linguistic materials for self-instruction. Problem solving in syntax and phonetics, through the application of modern/traditional methods.

FRE 3780 Phonetics (3). The application of phonetic theory and

practice for speech refinement. Study of sound patterns in communication and creative activity.

FRE 3820 Dialectology (3). Definition and analysis. Problem-solving in dialect classification.

FRE 4422 Advanced French Composition (3). A study of various aspects of forms and styles, with emphasis on expository writing in French. Prerequisite: FRE 3421.

FRE 4470 Foreign Study: Advanced Language/Literature (12). Fullsemester credit for foreign residence and study/work. (Approval of Department required.)

FRE 4501 Civilization II (3). Open to any student who understands the target language. The making of a modern culture. The ideological, political, and economic background of contemporary culture.

FRE 4562 Studies in Bilingualism (3). Readings and analysis of bilingual programs and bi-national goals.

FRE 4791 Contrastive Phonology (3). Contrasts in the sound systems of English and French.

FRE 4800 Contrastive Morphology (3). Contrasts in the morphology and syntax of English and French.

FRE 4840 History of the Lenguage (3). The internal and external history of language development. Examination of model texts from key periods of evolution. Prerequisite: FRE 3780 or LIN 3010 or LIN 3013.

FRE 4935 Senior Seminar (3). Topic and approach to be determined by students and instructor.

FRE 5060 Language for Reading Knowledge (3). Designed primarily for graduate students who wish to ettain proficiency for M.A. and Ph D requirements. Open to any student who has no prior knowledge of the language.

FRE 5061 Language for Reading Knowledge (3). Emphasis on trenslation of materials from the student's field of specialization. Prerequisite FRE 5060 or equivalent.

FRE 5565 Studies in Bilingualism (3). Readings and analysis of bilingual programs and binational goals.

FRE 5735 Special Topics in Linguistics (3). Content to be determined by students and instructor. (Approval of Department required.) FRE 5755 Old French Language (3). Introduction to the phonology, morphology, and syntax of the Old French language. Reading and analysis of the 12th and 13th century texts in their original. Comparison of major medieval dialects. Prerequisite: FRE 4840 or FRE 5845.

FRE 5845 History of the Language (3). The internal and external history of language development. Examination of model texts from key periods of evolution. Prerequisite: FRE 3780 or LIN 3010 or LIN 3013.

FRE 5908 Independent Study (1-3). Project, field experience, readings, or research.

FRT 3800 Basic Translation Exercises (3). Emphasis on basic principles and practice application. Prerequisite: FRE 3421.

FRT 4801 Professional Translation (3). Techniques and resources for professional translation. Prerequisite: FRT 3810.

FRT 5805 Translation/Interpretation Arts (3). Techniques of professional translation and interpretation. Prerequisite: FRT 4801.

FRW 3200 Introduction to Literature (3). Close reading and analysis of prose and poetry. Introduction to the methods of literary criticism. Selected readings in international sources.

FRW 3280 French 19th Century Novel (3). Four major novels by major 19th century novelists will be selected to illustrate the development of novelist techniques as well as of a different conception of the role of the novel that finally made it most important literary genre. Prerequisite: FRW 3810 or another FRW course.

FRW 3300 French Comedles (3). A study in French comedies from the 15th century to the 19th century, with special emphasis on Mollere's plays Prerequisite: FRW 3200.

FRW 3323 French 19th Century Drams (3). Plays will be chosen to illustrate various literary movements in 19th century French drama: Romanticism, Realism, Naturalism, and Symbolism. Prerequisite: FRW 3200.

FRW 3370 French 19th and 20th Century Short Stories (3). Great short stories by Maupassant, Merimee, Flaubert, Camus, and Sartre will be studied to familiarize the student with literary criticism by a closo reading and analysis of short texts. Prerequisite: FRE 3421.

FRW 3520 Prose and Society (3). The dynamics of participation and alienation between prose writers and their environment.

FRW 3532 French Romantic Literature (3). A study of French Romantic generation through the works of Lamantine, Hugo, de Musset, etc. Prerequisite: FRW 3200.

FRW 3810 Problems in Reading and Interpretation (3). The identification and appreciation of techniques for sensitive reading and discussion of literary texts.

FRW 3905 Independent Study (3). Project, field experience, readings, or apprenticeship.

FRW 3930 Special Topics (3). Readings and discussion of literary/linguistic topics to be determined by students and instructor.

FRW 4212 French Classical Prose (3). Study of major works of 17th century French authors such as Descartes, Pascal, La Rochefoucauld, La Bruyere, etc. Prerequisites: FRW 3200, and another FRW course.

FRW 4272 French Novels from the Classical Period (3). A study of major 17th and 18th century French novels. Course conducted in French. Prerequisites: FRW 3200, and another FRW course.

FRW 4281 French 20th Century Novel (3). Novels by different novelists will be selected to illustrate the variety of the 20th century French novel from Gide and Proust, Malraux, Bernanos or Mauriac to existentialism and the New Novel. Prerequisites: FRW 3200, and another FRW course.

FRW 4310 Seventeenth-Century Franch Drama (3). A study of French classical aesthetics through the plays of Corneille, Moliere, and Racine. Prerequisites: FRW 3200, and another FRW course.

FRW 4324 French 20th Century
Theatre (3). Plays by various dramatists
will be selected to give an idea of the
scope and variety of contemporary
French theatre from Claudel and
Giraudoux to Existentialism and the
theatre of the absurd. Prerequisitos:
FRW 3200, end another FRW course

FRW 4390 Genre Studies (3). Examination of a single literary form (e.g. short story, poetry), or the study of

interaction between literary types (e.g. novel and drama).

FRW 4410 French Medievali Literature (3). A study in different literary forms prevalent during the 12th and 15th centuries. Read in modern French; course will be conducted in French. Perequisites: FRW 3200, and another FRW course.

FRW 4420 Sixteenth-Century French Literature (3). A study of major authors of the French Renaissance, Rabelais, Ronsard, Montaigne, etc. Course conducted in French. Prerequisites: FRW 3810 or 3820, and another FRW course.

FRW 4570 French Existentialists Literature (3). Novels and plays by existentialist writers will be studied as representative of a major philosophical trend in the mid-20th century. Prerequisites: FRW 3810 or 3820, and another FRW course.

FRW 4583 French Women Novelists (3). Novels by various women writers, from the 19th century but mostly from the 20th century, will be selected to illustrate the increasing number of important writings by contemporary writers as well as the scope and variety of their concerns. Prerequisites: FRW 3810 or 3820, and another FRW course.

FRW 4590 Creative Modea (3).
Discussion of a single mode or a plurality of epoch styles such as classical/baroque, realism/surrealism.
The peculiar/common features of expressive media.

FRW 4905 Independent Study (1-3). Project, field experience, readings, or research.

FRW 4930 Special Topics (3). Independent readings, research, or project.

FRW 5395 Genre Studles (3).
Examination of a single literary form (e.g. short story, poetry), or the study of interaction between literary types (e.g. novel and drama).

FRW 5934 Special Topics in Language Literature (3), Content and objectives to be determined by student and instructor.

FRW 5938 Graduate Seminar (3). Topic and approach to be determined by students and instructor. (Approval of the Department required.)

GER 3000 Elementary German (3). Emphasis on oral skills, contemporary language, and culture. Content oriented to students with specific professional or leisure interests. This course is not part of a series. No prerequisites.

GER 1120 German I (5). Provides training in the acquisition and application of basic language skills.

GER 1121 German II (5). Provides training in the acquisition and application of basic language skills.

GER 2210 Intermediate German (5). Provides intermediate training in the acquisition and application of basic language skills.

GER 3240 German Intermediate Conversation (1). This course is designed to help students maintain and increase their conversational ability in the language while unable to continue the regular sequence. May be repeated twice. Prerequisite: GER 1121 or equivalent.

GER 3420 Revlew Grammer/Writing I (3). Practice in contemporary usage through selected readings in culture and civilization. Development of writing and speaking ability in extemporaneous contexts. The course will be conducted exclusively in the target language.

GER 4905 Independent Study (1-3). Project, field experience, readings, or research.

GER 4930 Special Topics (3). Independent readings, research, or project.

GER 5060 German for Reading Knowledge (3). Designed primarily for graduate students who wish to attain proficiency for M.A. or Ph.D. requirements. Open to any student who has no prior knowledge of the language.

GER 5061 German for Reading Knowledge (3). Emphasis on translation of materials from the student's field of specialization. Prerequisite: GER 5060 or the equivalent.

GET 3100 Literature in Translation (3). Masterpieces in German literature in English. Comparative use of the original text. Discussion and interpretation.

HBR 3000 Elementary Hebrew (3). Emphasis on oral skills, contemporary language, and culture. Content oriented to students with specific professional or leisure interests. This course is not part of a series. No prerequisites.

HBR 1120 Hebrew I (5). Provides training in the acquisition and application of basic language skills.

HBR 1121 Hebrew II (5). Provides training in the acquisition and application of basic language skills.

HBR 2200 Intermediate Hebrew (5).
Provides training in the acquisition and application of basic language skills.

ITA 1120 Italian I (5). Provides training in the acquisition and application of basic language skills.

ITA 1121 Italian II (5). Provides training in the acquisition and application of basic language skills.

ITA 2210 Intermediate Italian (5). Provides intermediate training in the acquisition and application of basic language skills.

ITA 3000 Elementary Italian (3). Emphasis on oral skills, contemporary language and culture. Content oriented to students with specific professional or leisure interests. This course is not part of a series. No prerequisites.

ITA 3240 Italian Intermediate
Conversation (1). This course is
designed to help students maintain and
increase their conversational ability in
the language while unable to continue
the regular sequence. May be repeated
wice. Prerequisite: ITA 3131 or
equivalent.

ITA 3420 Review Grammer/Writing I
(3). Practice in contemporary usage
through selected readings in culture and
civilization. Development of writing and
speaking ability in extemporaneous
contexts. The course will be conducted
exclusively in the target language.

ITA 4905 Independent Study (1-3). Project, field experience, readings, or research.

iTA 4930 Special Topics (3). Independent readings, research, or project.

ITT 3110 Literature in Translation (3). Masterpieces of Italian literatura in English. Comparative use of the original text. Discussion and interpretation.

JPN 1120 Japanese I (5). Provides training in the acquisition and application of basic language skills.

JPN 1121 Japanese II (5). Provides training in the acquisition and application of basic language skills.

JPN 3210 Intermediate Japanese (5). Provides intermediate training in the acquisition and application of basic language skills. LIN 3010 Introduction to General Linguistics (3). Examination and synthesis of the concepts and perspectives of major contributions to language theory.

LIN 3200 Phonetics (3). The application of phonetic theory and practice for speech refinement. Study of sound patterns in communication and creative activity. Prerequisite: LIN 3010 or equivalent.

LIN 3610 Dialectology (3). Definition and analysis. Problem-solving in dialect classification. Prerequisite: LIN 3010 or equivalent.

LIN 4226 Contrastive Phonology (3). For students proficient in more than one foreign language. Choice of languages to be determined by students and instructor. Prerequisite: LIN 3010 or equivalent.

LIN 4333 Contrastive Morphology (3). For students proficient in more than one foreign language. Content and emphasis to be determined by students and instructor. Prerequisite: LIN 3010 or equivalent.

LIN 4400 Applied Linguistica (3). Examination of available linguistic materials for self-instruction. Problomsolving in syntax and phonetics, through the application of modern/traditional methods. Prerequisite: LIN 3010 or equivalent.

LIN 4418 Problems In Language
Learning (3). Primarily designed for
prospective teachers, but open to all
interested students. The course will aim
to devise approaches to difficulties
commonly experienced in syntax, usage,
reading and comprehension.
Prerequisite: LIN 3010 or equivalent.

LIN 4620 Studies in Billingualism (3). Readings and analysis of bilingual programs and binational goals. Prerequisite: LIN 3010 or equivalent.

LIN 5207C Acoustic Phonetics (3). Introduction to principles of acoustic and instrumental phonetics, including the physics of speech sounds and use of the sound spectrograph and other instruments. Prerequisitos: LIN 3010 and one additional course in phonetics/phonology. Coroquisite. One of the prerequisites may be counted as a corequisite.

LIN 5435 Research Methods In Linguistics (3). The collection and analysis of linguistic data, sampling techniques, interviews, recordings, questionnaires, transcription, basic statistical procedures, including the use of computer analysis. Prerequisite: LIN 3010 or equivalent.

LIN 5600 Sociolingulatics (3).
Principles and theories of linguistic variation with special attention to correspondences between social and linguistic variables. Prerequisite: LIN 3010 or equivalent.

LIN 5613 Dialectology (3). The geography of language variation: linguistic geography, atlases, national and regional studies. Dialectology within a modern sociolinguistic frame work; research approaches. Prerequisites: LIN 3010 and one other graduate-level linguistics course.

LIN 5625 Studies in Billingualism (3). Readings and analysis of bilingual programs and binational goals. Prerequisite: LIN 3010 or equivalent.

LIN 5720 Second Language Acquisition (3). Research, theories, and issues in second language acquisition. Topics include the Monitor Model, the role of the first language, motivation, age, individual differences, code-switching, and the environment; affective variables and attitudes.

LIN 6934 Special Topics in Linguistics (3). Content to be determined by students and instructor. (Approval of the Department required.)

(See English listing for additional Linguistics courses.)

POR 1130 Portuguese I (5). Provides training in the acquisition and application of basic language skills.

POR 1131 Portuguese II (5). Provides training in the acquisition and application of basic language skills.

POR 2200 Intermediate Portuguese (5). Provides intermediate training in the acquisition and application of basic language skills.

POR 3000 Elementary Portuguese (3). Emphasis on oral skills, contemporary language, and culture. Content oriented to students with specific professional or leisure interests. This course is not part of a series. No prorequisites.

POR 3240 Portuguese Intermediate Conversation (1). This course is designed to help students maintain and increase their conversational ability in the language while unable to continue the regular sequence. May be repeated twice. Prerequisite: POR 3131 or equivalent.

POR 3420 Review Grammar/Writing I (3). Practice in contemporary usage through selected readings in culture and civilization. Development of writing and speaking ability in extemporaneous contexts. The course will be conducted exclusively in the target language.

POR 3421 Review Grammar/Writing II (3). Examination of grammatical theory; discussion of the modern essay. Practice in the detection and correction of errors in usage. The course will focus on current international events as content for informal talks and compositions.

POR 3500 Luso-Brazilian Culture (3). Open to any student who understands Portuguese. The development of Portuguese speaking civilizations, with emphasis on either Portugal or Brazil: history, art, music, daily life, impact on other cultures.

POR 3930 Special Topics in Language Linguistics (3). Readings, research, and discussion of topics in Portuguese language or linguistics to be determined by students and instructor.

POR 4470 Foreign Study: Advanced Language Literature (VAR). Up to a full semester credit for foreign residence and study/work (Approval of Department required.)

POW 4905 Independent Study (1-3). Project, field experience, readings, or research.

POW 4930 Special Topics (3). Independent readings, research, or project.

PRT 3401 Literature in Transfation (3). Masterpieces of Portuguese literature in English. Comparative use of the original text Discussion and interpretation.

RUS 1120 Russian I (5). Provides training in the acquisition and application of basic language skills

RUS 1121 Russian II (5). Provides training in the acquisition and application of basic language skills

RUS 2210 Intermediate Russian (5). Provides intermediate training in the acquisition and application of basic language skills

SPN 1030 Elementary Spanish for Medical Personnel (5). Conversational elementary Spanish for medical personnel Recommended for nonnative speakers of Spanish who are in nursing or other health-related professions SPN 1120 Basic Spanish I (5). Course designed specifically for beginning university students with no previous language study. Emphasis on oral Spanish and on acquiring basic language skills.

SPN 1121 Basic Spenish II (5). Emphasis on oral Spanish and on acquiring basic language skills. This course completes the lower-division language requirement.

SPN 2200 Intermediate Spanish (5). Provides intermediate training in the acquisition and application of basic language skills.

SPN 3000 Elementary Spanish (3). Emphasis on oral skills, contemporary language and culture. Content oriented to students with specific professional or leisure interests. This course is not part of a series. No prerequisites.

SPN 3013 Language Skills for Professional Personnel (1-3). The course is geared to the special linguistic needs of the community groups (medical, business, technical, etc.).

SPN 3240 Intermediate SpanIsh Conversation (1). This course is designed to help students maintain and increase their ability in the language while unable to continue the regular sequence. May be repeated twice. Prerequisite: SPN 1121 or equivalent.

SPN 3270 Foreign Study (12). Intermediate level. One semester fulltime credit for foreign residence and study. Individual cases will be evaluated for approval.

SPN 3301 Review Grammar/Writing I (3), Practice in contemporary usage through selected readings in culture and civilization. Development of writing and speaking ability in extemporaneous contexts. The course will be conducted exclusively in the target language. For non-native speakers.

SPN 3302 Review Grammar/Writing II (3). Examination of grammatical theory: discussion of the modern essay. Practice in the detection and correction of errors in usage. The course will focus on current international events as content for informal talks and composition.

SPN 3340 Intermediate Spanish for Native Speakers (3). Improvement of spelling, grammar, vocabulary, reading, writing, and oral skills for Hispanic bilinguals educated in the U.S., with less than two years of formal training in Spanish but whose mother tongue is Spanish. Prerequisite: Ability to understand Spanish.

SPN 3341 Advanced SpanIsh for Native Speakers (3). Improvement of literacy skills through grammar review, composition, and selected readings of representative Hispanic writers, including Cuban, Puerto Rican, and Chicano authors. For U.S. Hispanic bilinguals with at least two years of lormal training in Spanish. Prerequisite: SPN 2340 or permission of instructor.

SPN 3401 Advanced Conversation (3). Improvement of oral proficiency and listening comprehension skills, correction of accent, vocabulary building. Use of small group conversation, pronunciation tapes, and varied outside readings.

SPN 3415 Communication Arts (3). Oral interpretation and dramatic reading. Original and non-original texts will be the content of the course. Study of shared modes of experience and their individual linguistic expression in an acquired language.

SPN 3440 SpanIsh Business Composition/ Correspondence (3). Training in the special writing needs of business: letter-writing, memoranda, brochures, advertising, proposals, declarations, government documents, etc.

SPN 3520 Spanish American Culture (3). Introduction to the major artistic and cultural phenomena in Latin America. Art, music, Iilm, and literature will be discussed in their cultural context. Prerequisite: Ability to understand Spanish at advanced level.

SPN 3702 Applied Linguistics (3). Examination of available linguistic materials for self-instruction. Problem-solving in syntax and phonetics, through the application of modern/traditional methods. Prerequisite: LIN 3010 or equivalent. (Conducted in Spanish).

SPN 3733 Introduction to General Linguistics (3). Examination and synthesis of the concepts and perspectives of major contributions to language theory. (Conducted in Spanish.) Equivalent to LIN 3010.

SPN 3780 Phonetics (3). The application of phonetic theory and practice for speech refinement. Study of sound patterns in communication and creative activity. Prerequisite: LIN 3010 or equivalent.

SPN 3820 Dialectology (3). Definition and analysis. Problem-solving in dialect classilication. Prerequisite: LIN 3010 or equivalent. SPN 4470 Foreign Study: Advanced Language Literature (12). Full semester credit for foreign residence and study/work. (Approval of the Department required.)

SPN 4500 Spanish Culture (3). Open to any student who understands the target language. The development of a particular civilization. Emphasis on the evolution of a society, its ideas and its values.

SPN 4562 Studies in Bilingualism (3). Readings and analysis of bilingual programs and binational goals. Prerequisite: LIN 3010 or equivalent.

SPN 4790 Contrastive Phonology (3). Contrasts in the sound systems of English and Spanish. Prerequisite: LIN 3010 or equivalent.

SPN 4800 Contrastive Morphology (3). Contrasts in the morphology and syntax of English and Spanish. Prerequisite: LIN 3010 or equivalent.

SPN 4802 Contrastive Syntax (3). Contrasts in the grammatical systems of English and Spanish with emphasis on structures with equivalent meanings. Recommended for students of translation and interpretation. Prerequisite: LIN 3010 or permission of the instructor.

SPN 4822 HIspanic-American Sociolinguistics (3). Language and society in Latin America. Sociolinguistic theory followed by consideration of specific language problems in Spanishand Portuguese-speaking areas of the Americas. Prerequisite: LIN 3010 or equivalent.

SPN 4824 Dislectology of the Spanish Caribbean (3). Study of varieties of Spanish used in the Caribbean area, including Miami-Cuban Spanish. The course will take historical and contemporary perspectives and will involve research among informants in South Florida.

SPN 4840 History of the Language (3). The internal and external history of language development. Examination of model texts from key periods of evolution. Prerequisite: LIN 3010 or aquivalent.

SPN 4905 Independent Study (1-3). Project, field experience, readings, or research.

SPN 4930 Special Topics in Linguistics (3). Provides the opportunity for students and instructor to explore topics not included in the regular course offerings. Content to be determined.

SPN 4936 Senior Seminar (3). Topic and approach to be determined by students and instructor.

SPN 5060 Language for Reading Knowledge (3). Designed primarily for graduate students who wish to attain proficiency for M.A. or Ph.D. requirements. Open to any student who has no prior knowledge of the language.

SPN 5061 Language for Reading Knowledge (3). Emphasis on translation of materials from the student's field of specialization. Prerequisite: SPN 5060 or the equivalent.

SPN 5525 Spanish American Culture (3). A graduate survey of the major artistic phenomena in Latin America. Art, music, film, and literature will be discussed in their cultural context. Prerequisite: Graduate standing and permission of the instructor.

SPN 5565 Studies in Bilingualism (3). Readings and analysis of bilingual programs and binational goals.

SPN 5845 History of the Language (3). Historical development of the Spanish language, primarily from the point of view of internal linguistic change. Spanish as an example of general processes of language development. Prerequisites: LIN 3010 and one other course in Spanish linguistics.

SPN 5908 Independent Study (1-3). Project, field experience, readings, or research.

SPN 6505 Spanish Culture (3). Selected development in language, literature, art, music, film, and the social institutions of Spain. Prerequisites: Graduate standing and permission of instructor.

SPN 6535 The HIspanic Presence In the United States (3). Readings in literature, culture, and language to illustrate the experience of the major Hispanic groups in the United States Prerequisites: Graduate standing and permission of the instructor.

SPN 6930 Special Topics in Linguistics (3). Content to be determined by students and instructor (Approval of the Department required)

SPN 6970 Thesis Research (1-10). Research toward completion of Master's Thesis. Repeatable Prerequisite. Permission of Department SPT 3110 Literature in Translation (3). Masterpieces of Hispanic literature in English. Comparative use of the original text, Discussion and interpretation.

SPT 3800 Introduction to Translation Skills (3). Basic written translation into and out of English.

SPT 3812 Introduction to Oral Trenslation (3). Basic public-speaking techniques for sight translation. Beginning exercises in sight translation into and out of English and Spanish.

SPT 4801 Translation Practics (3). Translation of media, literary, and scientific texts.

SPT 4802 Practica in Oral Transtation and Interpretation (3). Sight translation into and out of English. Introduction to the study of terminology. Prerequisite: SPT 3812 or permission of instructor.

SPT 4803 Practica in Legal Translation (3). Provides advanced training in translating most commonly used legal documents in both civil and criminal procedures.

SPT 4804 Practice In Legal Interpretation (3). Training in consecutive and simultaneous interpretation of both civil and criminal legal proceedings before Federal and State courts.

SPT 4805 Translation in Communication Media (3). Provide insight into the techniques of translation of advertising, public relations and publicity materials to be used in the mass media such as print and broadcasting.

SPT 4806 Oral Skills for Interpreters
(3). Voice production in sight translation, consecutive and simultaneous interpretation. Vocal projection, enunciation and phonetics, theory and practice. Extensive exercises in vocal control. Use of sound equipment. Prerequisite: SPT 3812.

SPT 4807 Prectica in Business Translation (3), Business and language translation and the business world Principles, techniques, and methods of business translation. Extensive practical exercises in translating routine business documents English to Spanish and vice versa. Prerequisite: SPT 3800

SPT 4808 Practica in Technological Translation (3). Language and technology. The translator in the technological world Principles, techniques, and methods of technological translation. Extensive

practical exercises. Prerequisite: SPT 3800

SPT 4809 Practica in Medical Translation (3). Medical language. The translator and the medical world. Principles, techniques and methods of medical translation. Extensive practical exercises in translating routine medical documents English to Spanish and vice versa. Prerequisite: SPT 3800.

SPT 4813 The Interpreter and Lenguage (3). The interpreter as a linguistics expert. The stylistic levels of language. Legal jargon and street language in English and Spanish. Dialectal problems. Practical and ethnical problems. Prerequisite: SPT 3812.

SPT 4820 Computer-Alded Translation (3). The translating machine and computer-aided translation. Machine operation. Selected applications of computer translating texts from various disciplines. Correction of translated texts with computers. Prerequisities: SPT 3800, CDA 2310, and permission of director of program.

SPT 4940 Judicial Translationinterpretation internship (3). Students will spend a semester working in state and federal courts under the supervision of a professor, in order to practice in situ what they have learned. Prerequisites: SPT 3800, SPT 3812, SPT 4801, SPT 4803, SPT 4804, SPT 4806, SPT 4807.

SPT 4941 Professional Translationinterpretation Internship (3). Students will spend a semester working in state and federal courts under the supervision of a professor, in order to practice in situ what they have learned Prerequisites: SPT 3800, SPT 3812, and permission of instructor

SPT 5118 Literature in Translation (3). Masterpieces of world literature. Open to students who are proficient in more than one language

SPW 3323 Gercle Lorca's Theatre (3). Readings from representative plays by Span's finest dramatist of the 20th century, including his three well-known tragedies and a number of short comic plays. Discussion of such themes as social and individual justice and freedom, passion and repression; and the role of poetry in the theatre...

SPW 3342 Twentleth Century Spanish Poets (3). Roadings from solected poets of the 20th century, such as Antonio Machado, Miguel Hernandez, Damaso Alonso, and Rafael Albertt Close examination of the poems representative

of these poets, and their contribution to the development of Spanish poetry from the Generation of 1898 to the middle of the 20th century.

SPW 3371 The Latin American Short Story (3). Readings from the 19th century authors and such 20th century masters as Borges, Cortazar, Cabrera Infante, Garcia Marquez, and Rulfo. Examination of short-story techniques and of such themes as social satire, the nature of reality, reason, and irrationally

SPW 3423 Masterworks of the Golden Age (3). Readings from selected masterpieces of the Spanish Renaissance and Baroque, such as La Celestina, Lazarillo de Tormes, and the short novels of Cervantes. Emphasis on satire and the representation of such human problems as freedom, poverty, and the rebellion of the individual.

SPW 3520 Prose and Society (3). The dynamics of participation and alienation between prose writers and their environment

SPW 3604 Don Quljote (3). A careful reading and discussion of Cervantes' Don Quijote, with particular attention to its multiple meanings in human terms, its innovative contributions to the novel in Europe, and the author's use of irony, characterization, and humor.

SPW 3720 The Generation of 98 (3). Based on the works of Azorin, Baroja, Ganivet, Machado, Maetzu, Unamuno, and Valle-Inclan, this course will emphasize the individual thrust each author makes to loster artistic revolution and human regeneration, within a society characterized by abulia and existentialist anxiety.

SPW 3810 Problems In Reading and Interpretation (3). The identification and appreciation of techniques for sensitive reading and discussion of literary texts.

SPW 3820 Introduction to Literature (3). Close reading and analysis of prose and poetry. Introduction to the methods of literary criticism. Selected readings in international sources.

SPW 3930 Special Topica (3). Readings and discussion of literary/linguistic topics to be determined by students and instructor.

SPW 4152 European Literature in Translation (3). For students proficient in more than one foreign language. Content and locus to be determined by students and instructor. SPW 4263 The Spanish Novel of the Nineteenth Century (3). Within the context of literature and society, representative Spanish novels of the epoch will be studied. Special attention will be given to Galdos and Clarin.

SPW 4271 Twentleth-Century Spanish Novel to 1956 (3). A study of the genre in Spain before and after the Civil War. Emphasis will be on predominant narrative tendencies. Representative authors will be discussed, such as Cela, Laforet, Sender, Matute, Medio, and others.

SPW 4304 Latin American Theatre (3). A view of Latin American theatre from the 19th century to the present. Representative works of the most reknown dramatists will be examined, with emphasis on the works of Usigili, Triana, Marques Wolff, and Diaz.

SPW 4324 Contemporary Spanish Drama: Buero Vallejo (3). Chronological readings from plays written between 1949-1980. Emphasis on dramatic reading. An examination of the evolution of dramatic art in the contexts of censorship and freedom.

SPW 4334 Golden Age Poetry (3). Selected readings from the major lyric poets of the 16th and 17th centuries. Special attention to the problems of contemporary readings of classical texts.

SPW 4343 Poetry of Garcia Lorca (3). Chronological examination of the major works of Spain's greatest poet. Special attention to the lyric and dramatic features.

SPW 4351 SpanIsh American Poetry I (3). A view oi Spanish American poetry from the Pre-Colonial period until 1850. Representative works of the most reknown poets will be examined, with emphasis on Ercilla, Sor Juana, Bello, Heredia, and Avellaneda.

SPW 4352 Spanish American Poetry II
(3). A view of Spanish American poetry
from 1850 to the present.
Representative works of the important
poets will be examined, and special
attention will be given to Lezama Lima,
Parra. Paz. and Valleio.

SPW 4364 The Spanish American Easay (3). A study of the ideological and intellectual forces that have shaped the Spanish American thought, as expressed in the works of representative authors such as Rodo, Mallea, Martinez Estrada, Paz, Manach, and others.

SPW 4390 Genre Studies (3). Examination of a single literary form (e.g. short story, poetry), or the study of interaction between literary types (e.g. novel and drama).

SPW 4424 Golden Age Drama (3). Close readings from the finest plays written in Spain's Golden Age by Lope de Vega, Calderon, Tirso, and others, including the Don Juan theme. An examination of theatre as stylized conformity and as protest literature in a highly controlled society.

SPW 4590 Creative Modes (3).
Discussion of a single mode or a
plurality of epoch styles such as
classical/baroque, realism/surrealism.
The peculiar/common features of
expressive media.

SPW 4930 Special Topics (3). Independent readings, research, or project.

SPW 5155 Comparative Studies (3). Cross-over and distinctiveness in a multi-language problem, period, or aesthetic.

SPW 5237 The Traditional Spanish American Novel (3). Study and analysis of the traditional Spanish novel as a form of art, from 19th century Lizardi's El periquillo sarniento, to 1950. The novels and authors studied are representative of 'costumbrismo', 'romanticismo', 'naturalismo', 'modemismo', and 'criollismo'

SPW 5277 Twentleth Century SpanIsh Novel, from 1956 to the Present (3). Analysis of the Spanish novel from Ferlosio's El Jarama to the present. The perspective will be focused within historical, social, and artistic context. Representative authors such as Cela, Martin Santos, Umbral, Delibes, Benet, Goytisolo, and others will be included.

SPW 5286 Contemporary Spanish American Novel (3). A study of the Spanish American Novel from 1950. The course will intensively and extensively focus on the novelists who are best known for their innovations, defining and analyzing the qualities which give originality and newness both in themes and language.

SPW 5346 Poetry of Jorge Guillen (3). Selected readings from the live volumes of Aire nuestro. Emphasis on the techniques of close reading and explication. Related selections from Guillen's literary criticism.

SPW 5358 Graduate Seminar: Prose and Poetry of Jorge Luls Borges' (3). Close readings of short stories and poetry. Emphasis on Borge's linguistic

and cultural pluralism and the interplay of philosophy with fabulation.

SPW 5359 Graduate Seminar: Poetry of Pablo-Neruda (3). Chronological examination of the major works of Chile's Nobel Laureate, Related readings from Neruda's Memories. Emphasis on the poet's linguistic and aesthetic innovations.

SPW 5425 Quevedo: Poetry (3), Close reading of selected poems by Spain's greatest baroque poet and creator of modern Spanish satire, including poems on love, death, and metaphysical concerns, and a wide range of humorous poems.

SPW 5426 Quevedo: Prose Satire (3). Close reading of selected satires in prose by Spain's greatest baroque satirist and creator of modern Spanish satire. Includes Quevedo's picaresque novel El Buscon, and his Suenos, or Visions of Hell.

SPW 5576 Spanish American Moderniam (3). An in-depth study of prose and poetry of one of the most important periods of Spanish American literature, locusing on Marti, Dario, Najera, Casals, Silva, Valencia, Lugones, and Herrera y Reissig.

SPW 5934 Special Topics in Language/

Literature (3). Content and objectives to be determined by student and instructor.

SPW 6395 Genre Studies (3). Examination of a single literary form (e.g. short story, poetry,) or the study of interaction between literary types (e.g. novel and drama).

SPW 6936 Graduate Seminar (3). Topic and approach to be determined by students and instructor. (Approval of the Department required)

Music

Joseph Rohm, Associate Professor and Chairperson

John Augenblick, Associate Professor John Brick, Assistant Professor Philip H. Fink, Professor Orlando Garcia, Assistant Professor Marie Leeds, Assistant Professor

Clair McElfresh, Professor Miguel Salvador, Visiting Assistant **Professor**

Vloiet Vagramlam-Nishanian, Professor

Degree: Bachelor of Music

Freshman/Sophomore Admission Freshman admission requires 12 high

school academic units, a 3.0 GPA, and a score of 1,000 on the SAT. Some exceptions may be made for talented students.

Junior/Senior Admission

Music Students at the University come from a wide variety of academic backgrounds from both Florida and other states. Because of this diversity, the Faculty of Music gives two basic preliminary examinations in order to assist the student to eliminate any deficiencies:

1. Music Theory - consisting of melodic and harmonic dictation, piano proficiencies, and written harmonization

Performance Skills - consisting of performing one or more solo works for the faculty during the first week of

To qualify for admission to the program. FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

The following is a Bachelor of Music Plan for those students interested in a music degree. In addition, students should consult the Music Students Handbook.

Four Year Plan Music

First Year Theory

1at Semester Sightsinging Private Lesson

Ensemble (Two each semester) Class Piano Academic Electives Recital Attendance

2nd Semester

Theory Sightsinging Private Lesson Ensemble (Two each semester) Class Piano Academic Electives Recital Attendance

Second Year

Theory

1st Semester

Theory 3 Sightsinging 1 Class Piano 1 2 Private Lesson Ensemble (Two each semester) 2 Academic Electives 8 Recital Attendance 0 17

2nd Semester

Sightsinging

Class Piano 1 Private Lesson 2 Ensemble (Two each semester) 2 Academic Electives 8 Recital Attendance 0 17

Third Year

1st Semester Counterpoint (MUT 3416) 3 Basic Conducting 1 Private Lesson 2 2 Ensemble (Two each semester) Music History 3 6 Electives Recital Attendance 0 17

2nd Semester

Form/Analysis 3 Conducting (Instrumental or Choral) 1 Private Lesson 2 2 Ensemble (Two each semester) Music History 3 Electives 6 Recital Attendance 0 18

Fourth Year

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18

1st Semester Orchestration 3 2 Private Lesson Ensemble (Two each semester) 2 20th Century Music History 3 7 Music Flectives 0 Recital Attendance 17

2nd Semester

2 Private Lesson 2 Ensemble (Two each semester) Research/Recital 1 Music Electives 6 Flectives 6 **Recital Attendance** 0 17

A 'B' average in all courses required for the major is necessary for graduation

8

6

4

6

24

Minor in Music Theory/Sightsinging History Ensemble (4 Semesters)

Course Descriptions

Definition of Prefixes

Music Electives

HUM Humanities, MUC Music Composition, MUE Music Education; MUG Music Conducting, MUH Music-History / Musicology, MUL Music Literature, MUM Music, Commercial: MUN-Music Ensembles, MUS-Music, MUT Music Theory, MVB Applied Music/Brass, MVK Applied Music-Keyboard, MVP-Applied Music/Percussions, MVS Applied

Music/Strings; MVV-Applied Music/Voice; MVW-Applied Music/Woodwinds.

MUC 4201 Music Composition I (3). A course designed to give the advanced student intensive expenence in creative writing. Compositional techniques and devices will be studied, through an analysis of works by major composers. Prerequisite: MUT 4311 or permission of instructor.

MUC 4202 Music Composition II (3). A continuation of Music Composition I. The larger forms of music composition are analyzed and composed. Prerequisite: MUC 4201.

MUE 3140 Solfege (3). A course designed to strengthen and build the student's ability to write and perform melodic, harmonic and keyboard dictation. It will also provide a rhythm pattern sequence necessary to write and understand the modern idiom of score reading analysis and transposition.

MUE 3440C String Techniques (1). Class instruction of string instruments; tuning and care of instruments; teaching techniques, fingerings, bowings; violin, viola, cello and double bass.

MUE 3450 Woodwind Techniques (1). Class instruction of woodwind instruments; tuning and care of instruments. Teaching techniques. Single reed instruments, double reed instruments, and flute. Class one hour, laboratory one hour.

MUE 3460 Brass Techniques (1). Class instruction of brass instruments; tuning and care of instruments. Teaching techniques. Piston and valve instruments, french horn, and trombone. Class one hour, laboratory one hour.

MUE 3470 Percussion Techniques (1). Class instruction of percussion instruments; sticking techniques; care of instruments; teaching techniques. Drum and mallet instruments. Class one hour, laboratory one hour.

MUE 5928 Workshop in Music (2). Applications of materials and techniques in music in a laboratory or field setting.

MUG 4101 Basic Conducting (1). A basic conducting course to gain fundamental technique and interpretation. A prerequisite for both advanced instruments and choral conducting.

MUG 4202 Choral Conducting (1). With a background in basic theory, and having performed in organizations, the student will develop techniques of group conducting including madrigal, glee, choir, etc. A survey of choral literature will be included. Prerequisite: MUG 4101.

MUG 4302 Instrumental Conducting (1). With a background in basic, theory, and having performed in organizations, the student will develop a knowledge of baton technique, score reading, and interpretation. Prerequisite: MUG 4101. Corequisite: Orchestra or wind ensemble or both.

MUG 5105 Advanced Conducting Techniques (1). An extension of form and analysis, with interpretation both in instrumental and choral conducting. Twentieth century scoring and symbol interpretation will be studied in depth, with actual conducting experience required

MUH 1001 Musical Art Course (3). Lives and creations of great composers in various periods of history. A multimedia course.

MUH 2116 Evolution of Jazz (3). A history course that surveys jazz styles from mid-19th century to 1977. A sociological and musical look at jazz; the personalities and their experience.

MUH 3211 Music History Survey (3). A survey of music from antiquity to 1750. Lectures on historical styles will be supplemented with slides, recordings, and musical analysis. Prerequisite: Core for Music majors or by permission of instructor.

MUH 3212 Music History Survey (3). A survey of music from 1750 to the present. Lectures on historical styles will be supplemented with slides, recordings, and musical analysis. Prerequisite: Core for Music majors or by permission of instructor.

MUH 3372 Twentleth Century Music: Exploration (3). An exploration of music since 1900. Lectures on style plus demonstrations will be supplemented with recordings and analysis. Elements of the popular idiom will be investigated.

MUH 5375 Twentleth Century Music: 'New Dimensions' (3). A technical study of music since 1900. Lectures on style plus demonstrations and practical application will be supplemented with recordings and analysis. Electronic and multi-media performance will be accented.

MUL 3011 Understanding and Enjoyment of Music I (3). A nontechnical introduction to program music of the 19th century, and folk/popular music of the 20th century. MUL 3012 Understending and Enjoyment of Music II (3). A nontechnical introduction to music before the 1800's and music of the 20th century. comparisons of music up to and including electronic music.

MUL 4400 Keyboard Literature (3). Study of solo works for the keyboard from historical beginnings to the present. Performance practices and stylistic analysis will be emphasized, with illustrations of representative works.

MUL 4500 Symphonic Literature (3). Survey of symphonic literature from the 17th century to present day. Analysis and illustrations of representative works.

MUL 4661 History and Literature of Opera (3). Chronological survey of opera literature from the 17th century to present day. Analysis and performance of representative works.

MUM 1401 Music Calligraphy (3). The correct procedures for music penmanship, the notation of notes and chords for music parts and scores.

MUM 3601 Audio Techniques I (3). Basic sound engineering, including the basic workings of P.A. equipment and the interplay between the various components.

MUM 3602 Audio Techniques II (3). Studio recording techniques, microphone placement, taping and mixing.

MUM 4301 Business of Music (3). Principles and practices of modern publishing techniques; copyright laws; wholesale and retail distribution of music. Performance rights; agreements and relations between producers directors, performers, writers, personnel managers, and booking agents. Prerequisite: Permission of instructor.

MUM 4302 Business of Music II (3). Continuation of principles and practices of modern publishing techniques; copyright laws; wholesale and retail distribution of music. Performance rights; agreements and relations between producer, directors, performers, writers, personnel managers, booking agents. Prerequisite: MUM 4301.

MUM 4940 Music Internahip (VAR). Practical experience utilizing music theory, composition, and history in the commercial music industry. The precise nature of the work will be determined in consultation with an advisor. Prerequisite: MUM 4302. MUN 1100, 2100, 3100, 4100, 5105
University Pep Band (1). A study and performance of pop, jazz, and rock musical selections for the instrumental medium. Students will demonstrate what they have learned by performing and through individualized playing examinations. Prerequisite: Permission of instructor.

MUN 1140, 2140, 3140, 4140, 5145
Wind Ensemble (1). Readings and
performances of wind ensemble music
from the 18th century to the present.
Open to wind and percussion
instrumentalists. Prerequisite:
Permission of conductor.

MUN 1210, 2210, 3210, 4210, 5215
Orchestre (1). An instrumental
ensemble performing works from the
symphonic repertory. Prerequisites:
Previous experience and permission of
conductor.

MUN 1340, 2340, 3340, 4340, 5345 Sunblezer Singers (1). A small ensemble of selected mixed voices performing a repertoire in the modern popular idiom. Miniature contemporary accompaniment will be utilized. Prerequisite: Permission of conductor.

MUN 1380, 2380, 3380, 4380, 5385 University Singers (1). A chorus performing a repertoire primarily from great choral works. Large orchestral accompaniment as well as various instrumental ensembles will be utilized. Prerequisite: Permission of conductor.

MUN 1430, 2140, 3140, 4140, 5145
University Brass Choir (1). A study and
performance of literature written for the
brass medium (trumpet, horn, trombone,
euphonium, and tuba) from the prebaroque, baroque, classical, romantic and
contemporary periods. May be repeated.
Prerequisite: Permission of instructor.

MUN 1460, 2460, 3460, 4460, 5465 Chember Music (1). Small ensemble in the performing of chamber music literature. Prerequisite: Permission of conductor.

MUN 1710, 2710, 3710, 4710, 5715
Studio Jazz Ensemble (1). An ensemble to provide croative professional-level experience in the contemporary popular idiom Permission of conductor

MUN 2450 Plano Ensemble (1). The presentation and performance of music literature characteristic of piano and pianos in ensemble

MUN 2490 New Music Ensemble (1). A chamber group of varying instrumen-

tation and size performing art music from the 20th century with emphasis on music from the past 20 years. Explores electronics, multimedia works, etc. Prerequisite: Permission of instructor.

MUN 2492 Guitar Ensemble (1). The presentation and performance of music literature characteristic of the Guitar Ensemble.

MUN 4491 New Music Ensemble (1). A chamber group of varying instrumentation and size performing art music from the 20th century with emphasis on music from the past 20 years. Explores electronics, multimedia works, etc. Prerequisite: Permission of instructor.

MUN 4451 Piano Ensemble (1). The presentation and performance of music literature characteristic of piano and pianos in ensemble.

MUN 4499 Guitar Ensemble (1). The presentation and performance of music literature characteristic of the Guitar Ensemble

MUS 3905, MUS 5905 Directed Study (VAR). Designed to provide areas of exploration and specialization beyond the basic selected study programs, such as electronic music, religious music literature, sound techniques, etc.

MUO 1500, MUS 4502 Opera Workshop (1). The presentation and performance of music literature indigenous to the opera stage.

MUS 1010, MUS 3040 Recital Attendance (0). Students attend concerts and recitals as a corequisite to applied music.

MUS 3910, MUS 4910, MUS 5910
Research (VAR). Research composition
or performance projects, under the
guidance and direction of the music
faculty. (May be repeated.)

MUS 3949 Cooperative Education in Performing Arts (VAR). A student majoring in Performing Arts may spend several semesters fully employed in industry or government in a capacity relating to the major.

MUS 4949 Cooperative Education In Performing Arts (VAR). A student majoring in Performing Arts may spend soveral semosters fully employed in industry or government in a capacity relating to the major.

MUT 1001 Fundamentals of Music (3). A beginning music theory course in the basic elements of music rhythms, meter notation, key signatures scales, intervals, and triads.

MUT 1111 First Year Music Theory I
(3). This course is designed to promote
and develop comprehensive
musicianship in all disciplines of the
musical art, analysis, composition,
performance, and listening. Corequisite:
MUT 1221.

MUT 1112 First Year Music Theory II
(3). This course is designed to promote
and develop comprehensive
musicianship in all disciplines of the
musical art, analysis, composition,
performance, and listening. The second
semester is a continuation of Theory I.
Prerequisite: MUT 1111, Corequisite:
1222.

MUT 1221 SightsIngIng I (1). Development of Basic Musicianship through aural perception, sightsinging, and ear training exercises.

MUT 1222 SightsIngIng II (1). Development of Basic Musicianship through aural perception, sightsinging and ear training exercises. The second semester is a continuation of Sight singing I. Prerequisite: MUT 1221.

MUT 2116 Second Year Music Theory I (3). Continuation of Freshman Theory. It seeks to promote and further develop comprehensive musicianship in all disciplines of the musical art, analysis, composition, performance, and listening. Prerequisite: MUT 1112. Corequisite: MUT 2226.

MUT 2117 Second Year Music Theory II (3). This course further devolops those skills acquired in sophomore Theory I. Prerequisite: MUT 2116 Corequisite: MUT 2227.

MUT 2226 Second Year SightsIngIng I (1). Continuation of the Development of Basic Musicianship through aural perception, sightsinging, and ear training exercises Prorequisite: MUT 1222. Corequisite: MUT 2116

MUT 2227 Second Year Sightsinging it (1). Continuation of the Development of Basic Musicianship through aural perception, sightsinging, and ear training exercises. Prerequisites' MUT 2226, MUT 2116 Corequisite MUT 2117

MUT 3031 Music Theory I (3).
Designed to review and develop skills in basic theory, harmony, and ear training

MUT 3032 Music Theory II (3). Designed to review and further develop skills in basic theory, harmony, and ear training MUT 3416 Counterpoint (3). A study of linear writing through species counterpoint. Two and three-part instrumental and vocal counterpoint of the l8th century: Canon, inventions, fugues. Particular emphasis will be placed on formal analysis. Prerequisite: MUT 2117, 2227, or equivalent.

MUT 3611 Form and Analysis (3). Study and analysis from the smaller forms of musical composition to multimovement forms. Prerequisite: MUT 3416.

MUT 4311 Orchestration (3). With a background of basic theory, the student will explore the techniques of writing and arranging for instruments in performing organizations and choral groups.

MUT 4353 Jazz Arranging (3). This course teaches the fundamental aspects of jazz arranging: instrumentation, transposition, section and ensemble writing, chord voicings, counterpoint, and form and analysis. The performance of an original arrangement is required as a final project. Prerequisite: MUT 4641.

MUT 4561 Twentleth Century Theory-Composition (3). This course will analyze and compose works using the following procedures: melodic-harmonic techniques developed in the late nineteenth century; serial, and improvisational techniques; and those derived from the use of electronic devices as performance media.

UT 4641 Jazz Improvisation I (3). A beginning course in Jazz improvisation that teaches fundamental aspects, chord structures and extensions, chord scales, melodic patterns, and tunes. Course will involve both theory and practical application. A concert will be held at conclusion of term.

MUT 4642 Jazz Improvisation II (3). A follow-up course that both reinforces and extends all material learned in Jazz Improvisation I. Course stresses more complex chord structure, scales, and tunes. A concert will be held at conclusion of the term.

MUT 4643 Jazz Improvisation III (3). A continuation of Jazz Improvisation II, this course teaches chromatic chords, advanced scales and progressions, patterns, repertoire. Individual and ensemble performance is required as a final project. Prerequisite: MUT 4642.

MUT 5325 Arranging (3). A course in practical arranging for the public school teacher, including choral, band, and popular arranging.

MVB 1314, 2324, 3334, 4345, 5355 Applled Music-Bress (1-2). Individual instruction in applied music on trumpet, French horn, trombone, bantone horn, or tuba. Music majors only.

MVK 1111 Class Plano I (1). A course designed to teach piano skills and competencies to non-piano majors. This is a four-semester sequence for music majors. This course includes: keyboard familiarization, finger exercises and techniques, transposing, and easy literature. Prerequisite: None.

MVK 1112 Class Pieno (1). A continuation of Class Pieno I, MVK 1111. Prerequisite: MVK 1111.

MVK 1311, 2321, 3331, 4341, 5351 Applied Music-Keyboard (1-2). Individual instruction in applied music on piano or organ. Music majors only.

MVK 2121 Cless Plano II (1). A continuation of Class Piano I; The course includes continued work in finger technique, scales and fingering, transposing, simple accompaniments to folk songs, sight reading cadences, and simple literature. Prerequisite: MVK 1111.

MVK 2122 Class Plano II (1). A continuation of Class Piano II, MVK 2121. Prerequisite: MVK 2121.

MVP 1311, 2321, 3331, 4341, 5350 Applied Music-Percussion (1-2). Individual instruction in applied music on all percussion instruments. Music majors only.

MVS 1312, 2321, 3332, 4343, 5353 Applied Music-Strings (1-2). Individual instruction in applied music in violin, viola, cello, string bass, guitar, or harp. Music majors only.

MVS 1116 Gultar Skills (3). Emphasis on music reading and elementary techniques. Open to all Florida International University students.

MVS 2216 Intermediate Gultar Skills (3). Emphasis on techniques and styles such as calypso, lolk, blues, classical, and jazz. Open to all Flonda International University students.

MVS 4975 Recital and Research (1). All music majors, before graduation, must present at least one half of a public recital, and pass an oral examination on the music programmed.

MVV 1311, 2321, 3331, 4341, 5351 Applled Music - Volce (1-2). Individual instruction in applied music in voice. Music majors only. MVV 2111 Class Instruction/Voice (3). Class instruction on voice designed to help the student in developing performance skills and increased musical knowledge. (May be repeated.)

MVV 4141 Intermediate Class Voice (3). Emphasis on sightsinging, tonal production, interpretation, and other vocal exercises. Particular attention is paid to vocal and acting improvisation. Prerequisite: MVV 2111.

MVW 1313, 2323, 3333, 4345, 5353 Applied Muslc - Woodwinds (1-2). Individual instruction in applied music on the flute, oboe, clarinet, bassoon, or saxophone. Music majors only.

Philosophy

Robert Hann, Associate Professor and Chairperson, Department of Philosophy and Religion Michelle Beer, Assistant Professor Bongkil Chung, Associate Professor Paul Draper, Assistant Professor Bruce Hauptil, Associate Professor Kenneth Henley, Associate Professor George Kovaca, Professor Kenneth Rogerson, Assistant

Professor
Paul Warren, Assistant Professor

Degree: Bachelor of Arts

Philosophy is a program in the Department of Philosophy and Religion.

Lower Division Preparation
Recommended Courses: PHI 2100,
Introduction to Logic and other courses
in Philosophy and Religion.
To qualify for admission to the program,
FIU undergraduates must have met all
the lower division requirements including
CLAST, completed sixty semester hours,
and must be otherwise acceptable into
the program.

Upper Division Program: (60 semester hours) Required Areas Epistemology Metaphysics Ethics and Aesthetics Logic History of Philosophy Philosophy Seminar

Other Philosophy Courses

Electives¹

Courses in one other discipline

3339

3

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12

1PHI 2011 Philosophical Analysis and PHI 3636 Professional Ethics may not be used to fulfill the requirement of 12 elective hours in the philosophy program.

Remarks: A detailed description of the

Philosophy Program is contained in a brochure available at the Department of Philosophy and Religion, Students should consult the brochure for specific requirements of the major program. Students select their required courses in philosophy with the approval of a faculty member of the Department Students are also encouraged to consider a dualmajor, and thus simultaneously to meet the requirements of two academic majors. In these cases, the twelve semester hour credits required in one academic discipline (as part of the Philosophy Major) are met by courses taken towards the second major. The Department offers many of its courses at the North Miami Campus and participates in the Humanities Major. For further information concerning these courses consult the Department.

Minor in Philosophy

A student majoring in another academic discipline can eam an academic minor in philosophy by taking an approved selection of at least four philosophy courses (12 semester hours) approved in advance by the Chairperson of the Department. An acceptable minor in philosophy would be four courses in one of the areas designated in the course list of the Philosophy Program. A student may propose still other patterns of four philosophy courses for a minor, provided the selection is based upon an acceptable academic rationale

Course Descriptions

Definition of Prefixes GRE-Ancient Greek; PHH-Philosophy, History of; PHI-Philosophy; PHM-Philosophy of Man and Society; PHP-Philosophers and Schools.

GRE 3050 Introduction to Ancient Greek (3). This course introduces the Greek language of Plato, the New Testament, and other works of the ancient period. Its goal is to enhance the understanding of translated texts and to prepare for more advanced study of Greek. A portion of the Gospel of John will be studied in class

PHH 3042 Latin American Philosophy (3). This course will examine the development of Latin American thought, with particular attention to the 19th and 20th centuries. It will consider the traditions and initiatives of prominent Latin American philosophers in the light of problems such as personal and cultural identity.

PHH 3100 Ancient Philosophy (3). The basic concerns and teachings of representative philosophers and schools of thought, particularly in the Greek and Roman cultural settings, and linkages to their past and future are emphasized in this course.

PHH 3200 Medlevel Philosophy (3). The basic concerns and teachings of representative philosophers and schools of thought in the cultural settings of the Middle Ages, and linkages to their past and future are emphasized in this course.

PHH 3420 Early Modern Philosophy (3). The basic concerns and teachings of representative philosophers and schools of thought in the period from the Renaissance to Kant and the linkages to their past and future are emphasized in this course.

PHH 3440 Late Modern Philosophy
(3). The basic concerns and teachings of representative philosophers and schools of thought in the period from Kant to Nietzsche and the linkages to their past and future are emphasized in this course.

PHH 3700 American Philosophy (3). This course will examine the development of American philosophical thought, with particular attention to the 19th and 20th centuries. It will consider the traditions and initiatives of the prominent American philosophers, in the light of problems such as the relationship between theory and practice.

PHH 3840 Indian Philosophy (3).
Metaphysical, epistemological and
ethical theories within such major Indian
philosophical systems as philosophical
Buddhism, Jainism, Samkhya dualism,
and Vedanta transcendentalism are
examined.

PHH 4600 Twentleth Century
Phllosophy (3). The basic concerns and
teachings of representative philosophers
and schools of thought in the cultural
settings of the present century, and
linkages to past and emerging
generations are emphasized in this
course.

PHH 4930 A Major Philosopher (3). This course will examine in detail the works of a major figure in the history of philosophy. Prerequisite: Permission of instructor. Course may be repeated on a different philosopher.

PHI 2011 Philosophical Analysis (3). This course introduces both the tools of philosophical thinking and some of their applications to fundamental topics such as knowledge, value, meaning, and human society PHI 2100 Introduction to Logic (3). This introductory course in logical thinking and argumentation will treat both practical and theoretical approaches to understanding human communications and solving problems. Students will be introduced to inductive and deductive logic, fallacies, and the role of logic in scientific explanation and popular expression.

PHI 3101 Philosophical Logic (3). This course studies the propositional and predicate calculi and such topics as necessary truth, entailment, the ontological implications of logic, and the justification of deduction and induction.

PHI 3300 Epistemology (3). The viewpoints of vanious philosophers and schools of thought regarding types of knowledge, certitude, and creativity are the main emphases of this introductory course. The meaning of truth and truthfulness is analyzed from both the classical and the contemporary perspectives.

PHI 3320 Philosophy of Mind (3). An inquiry into the concept of mind and subsidiary concepts such as sensation, perception, desire, emotion, intention, volition, imagination, and intellect. The course will address the problem of the relation of mind and body and such topics as the concept of a person, the nature of intentional action, and the nature of consciousness.

PHI 3400 Philosophy of Science (3). The philosophic background of scientific method will be examined. Attention will be given to the philosophical consequences of conceptual change in the sciences. Such topics as the growth and unity of science, explanation and prediction, and the role of science in society will be explored

PHI 3500 Metephysics (3). This introductory course examines basic metaphysical questions regarding the nature of reality, as well as the meaning of these questions for the relationship of persons with thoir world. Fundamental texts from classical and contemporary philosophers will be considered.

PHI 3600 Ethics (3). What is intrinsically good? What ought one to do? How are moral claims justified? Competing views of major philosophers are considered.

PHI 3636 Professional Ethics (3). This course will examine the role of ethics in the professions. The locus will be on the moral issues arising in the professions with the aim of developing the analytical skills required to address such problems.

PHI 3700 Philosophy of Religion (3). This course investigates whether or not religious beliefs can be rationally justified. Such topics as the nature of God, the problem of evil, religious experience, and the relationship of faith to reason will be explored.

PHI 3762 Eastern Philosophical and Religious Thought (3). This introductory course examines the development of philosophical and religious thought in the East, from ancient to modern times. Hinduism, Buddhism, Confucianism, Taoism, and other major viewpoints will be considered, in themselves and in comparison with Western forms of thought.

PHI 3800 Aeathetics (3). An introduction to problems in aesthetics, with emphasis on those problems which are especially relevant to appreciation and criticism in the arts. Typical problems include the relation between form and content, truth and falsity in art, the nature of emotion in art and of the aesthetic response, as well as the nature of art itself. This course will include a study of selections from the writings of major thinkers and the consideration of those works of art which are relevant to this study.

PHI 4130 Symbolic Logic (3). This course provides an introduction to symbolic logic. Emphasis is upon both the formal techniques of analysis of argument and upon the theoretical aspects of formal logic.

PHI 4221 Philosophy of Language (3). This course examines the nature and structure of language from various philosophical perspectives. It includes an analysis of such themes as language and culture, language and thought, and the origin of language.

PHI 4222 Philosophy of Dialogue (3). This course examines the meaning, the foundations, the limitations of dialogue, and the dialogical structure of expression and human relationships based on the Philosophy of Martin Buber. It includes a philosophical analysis of the dialogical principle and the application of its insights to the problems of human living and knowing.

PHI 4321 Topics in the Philosophy of Mind (3). This course will examine in detail selected issues in the philosophy of mind. Possible topics include the nature and value of the passions, self and self-deception, theory of action, etc. May be repeated. Prerequisite: Instructor's permission or PHI 3320.

PHI 4630 Contemporary Ethical Issues (3). After a review of basic questions

regarding ethics, this course considers special ethical problems in contemporary society from the perspective of one or more philosophers or systems of ethics. Topics will be selected and announced in advance.

PHI 4633 Blomedical Ethics (3). After examining the foundations of ethics, this course will consider the human and ethical dimensions of current issues in the lile sciences, such as the meaning of human living and suffering, ethics of genetic control, death and dying, personal responsibility in the medical and counseling professions.

PHI 4882 Philosophy In Literature (3). Philosophical implications of selected works and the impact of philosophical concepts such as the self, death, identity, alienation, responsibility, freedom, and the absurd.

PHI 4910 Independent Research (1-6). Topics will be selected to meet the academic needs of the individual student. Prerequisite: Permission of instructor.

PHI 4930 Special Topics (3). In-depth study of topics of special interest in philosophy.

PHI 4935 Philosophy SemInar (3). This seminar is designed for majors and other qualified students approved by the Department, and will be guided by one or more faculty members. The specific topic will be selected and announced in advance. The number of participants will be limited.

PHI 5934 Special Topics (3). Topics will be selected to meet the academic needs of groups of students.

PHM 3040 Philosophical
Anthropology (3). This course attempts
to interpret philosophically scientific
perspectives concerning the nature of
man and of the human condition. It
seeks to elucidate the basic qualities
that make man what he is and
distinguish him from other beings.

PHM 3200 Social and Political Philosophy (3). The nature of society and the state, authority of society and the state over the individual, political obligation, legitimacy of government, and idea of social contract are considered.

PHM 3500 Philosophy of History (3). After exploring the definitions, dimensions and interrelations of philosophy and history, students will examine major philosophies of history. The social responsibility of the historical

narrative and the philosophical assumptions of historiographies will be discussed.

PHM 4020 Love and Sexuality (3). This course analyzes the nature and meaning of love and sexuality, and studies the basic problems in human sexual living, such as love and the man-woman relationship, the formation of sexual union, and attitudes toward love and sexuality in contemporary society.

PHM 4050 Philosophy of Death (3). This course analyzes the meaning of death and man's attitude towards death and the dying. It examines how philosophy can share in the new confrontation between man and his death, and shows the ways philosophical thinking contributes to the discovery of an authentic attitude towards the phenomenon of death as part of human living.

PHM 4123 Philosophy and Feminism (3). A conceptual analysis of alternative feminist views. Topics include the goals of the leminist movement, sexist theories on "women's nature", sexual stereotypes and androgyny, the nature of oppression, sexism, and racism.

PHM 4400 Philosophy of Law (3). After an analysis of the nature of law and judicial reasoning in the light of fundamental alternative interpretations, basic topics of legal philosophy will be considered, such as freedom and rights, responsibility and punishment, rule of law and civil disobedience, legality and justice.

PHP 3840 Chinese and Japanese Philosophy (3). Metaphysical and ethical theories of the three main philosophical systems of China, namely, Classical and neo-Confucianism, Taoism, and Chinese Buddhism are examined. For Japanese philosophy, Shintoism is included.

PHP 4510 Marxlam (3). This course examines the philosophic insights of Marx and the main trends (anthropological, social, existential) in contemporary Marxism. It includes an analysis of the Marxist interpretation of alienation, work, and human authenticity.

PHP 4782 Phenomenology (3). This course analyzes the method, the basic philosophical insights and the applications of 20th century phenomenology. It includes the phenomenological analysis of knowing as well as basic questions regarding the nature of reality together with the study of fundamental texts from Husserl, Heidegger, and Merleau-Ponty.

PHP 4784 Analytic Philosophy (3).

This course examines the 20th century Anglo-American tradition of approaching philosophic problems by the methods of linguistic analysis. It will include study of techniques of linguistic analysis and an evaluation of their adequacy in dealing with meaning and truth, the mind-body problem, and free will.

PHP 4786 Existentialism (3). This course examines the origin, basic philosophical insights, and influence of the mainstreams of modern existentialism. It includes the study of fundamental texts of Kierkegaard, Nietzsche, Sartre, Jaspers, and Camus.

Physics

Stephen L. Mintz, Professor and Chairperson

Richard A. Bone, Associate Professor Yessim Darici, Assistant Professor Rudolf Flebig, Associate Professor Bernard Gerstman, Assistant Professor

Kenneth Hardy, Professor Oren Maxwell, Assistant Professor John W. Sheldon, Professor Walter van Hamme, Assistant Professor

Degree: Bachelor of Science

This program prepares students for careers as professional physicists in industry, government, or graduate study in physics, engineering, or material science. It also prepares students for teaching careers. Students interested in teacher certification should contact the College of Education.

Lower Division Preparation Required Courses: Algebra and

Hequired Courses: Algebra and trigonometry (advanced high school courses in algebra and trigonometry are acceptable); one year of general chemistry, differential and integral calculus, and physics with calculus including lab. These courses may be taken at the University if not completed at the lower division. To qualify for admission to the program,

FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty somester hours, and must be otherwise acceptable into the program.

Electromagnetism

Upper Div	rision Pr	ogram (60	semeste	9r
hours)				
PHV 2122	DUV 215	24 Modern	Physics	6

PHY 3503 (CHM 3410)	
Thermodynamics	3
PHY 4221, PHY 4222 Mechanics	6
PHY 4323, PHY 4324	

PHY 4604, PHY 4605 Quantum	
Mechanics	6
PHY 4810L, PHY 4811L, PHY 4812L	•
Senior Physics Lab	3
PHY 4905, PHY 4906, PHY 4907	
Independent Study	3
	J
PHY 4921 Synopsis of	
Undergraduate Physics	1
Approved electives in experimental or	
theoretical physics	6
MAC 3313 Multivariable Calculus	3
MAP 3302 Differential Equations	3
Electives	14
2.000.700	

Minor in Physics

This program is designed for the students who desire additional capabilities in physics beyond the basic sequence. This program is especially recommended for chemistry, mathematics, and engineering/lechnology majors.

PHY 3048, PHY 3049 Physics with
Calculus 10
PHY 3048L, PHY 3049L Physics with
Calculus Lab 2
PHY 3123, PHY 3124 Modern Physics 6
Additional approved courses 6

Master of Science in Physics

The Master of Science in Physics is a 45 semester hour program consisting of coursework at the 5000 and 6000 level and research with one of the departmental research groups culminating in a master's thesis. Students entering the program must have a bachelor's degree or equivalent coursework in Physics.

Required Courses:

PHÝ 5115	Mathematical Physics 1	3
PHY 5116	Mathematical	
	Physics II	3
PHY 5240	Advanced Classical	
	Mechanics	3
PHY 5346	Advanced Electro-	
	magnetic Theory !	3
PHY 5347	Advanced Electro-	
	magnetic Theory II	3
PHY 6645	Advanced Quantum	
	Mechanics I	3
PHY 6646	Advanced Quantum	
	Mechanics II	3
PHY 6524	Statistical Physics	3
	•	

In addition, six semester hours of specialized coursework are required in the student's area of specialization and 15 hours of thesis work.

Cooperative Education

Students seeking the baccalaureate degree in physics may also take part in the Cooperative Education Program conducted in conjunction with the Department of Cooperative Education in the Division of Student Affairs. The student spends several semesters fully

employed in an industrial or governmental physics laboratory. For further information consult the Department of Physics or the Department of Cooperative Education.

Course Descriptions

Definition of Prefixes

AST-Astronomy; PHS-Physics/Specialized; PHY- Physics; PHZ- Physics; PSC-Physical Sciences; ENU-Nuclear Engineering

AST 2100 Solar System Astronomy (3). General principles of Astronomy with emphasis on the structure and evolution of the Solar System, the laws of planetary motion, and the physical aspects of the sun, planets, and interplanetary debris. Prerequisites: College Algebra and Geometry.

AST 2100L Solar System Astronomy Laboratory (1). Laboratory section of AST 2100. Outdoor observing of the Moon, planets and indoor exercises including celestial positions and time, the Moon's orbit, planetary motions, comparative planetology. Corequisite: AST 2100.

AST 2200 Modern Astronomy (3). The structure and evolution of our solar system is studied with particular emphasis on physical concepts. Topics will include astronomical coordinate systems, celestial mechanics, the earth's motions, and a description of the solar system. Perrequisites: College algebra and geometry.

AST 2200L Modern Astronomy Laboratory (1). Laboratory section of AST 2200. A study of astronomical objects visible from Miamir stars, constellations, planets, binary stars, star clusters, vanable stars, and nebulae Corequisite' AST 2200

AST 2201 Stellar Astronomy (3)
General principles of Astronomy with
emphasis on the structure and evolution
of stars, stellar systems, galaxies and
the universe. Topics include stellar birth
and death, neutron stars and black
holes, galactic distances and the
expansion of the universe.
Prerequisites. College Algebra and
Geometry.

AST 2201L Stellar Astronomy Laboratory (1), Laboratory section

Laboratory (1). Laboratory section of AST 2201. Outdoor observing of stars, constellations, binary and variable stars, star clusters, nebulae and indoor exercises including radiative properties of the stars, spectra, stellar and galactic distances, Hubble's Law. Corequisite: AST 2201.

AST 3213 Modern Astrophysics (3). An introduction to the structure of stars and galaxies and the evolution of the universe as a whole. Topics will include atomic spectra, stellar classifications, galactic structure, and cosmology. Prerequisites: PHY 3048, 3049.

ENU 4101 Introduction to Nuclear Reactors (3). An elementary course in nuclear fission reactor theory and power plant operation. An overview of the relevant nuclear processes and their application to reactor design.

Prerequisites: PHY 3048, 3049.

PHS 4303 Nuclear Physics (3). A treatment of the current state of the nuclear theory problem and a discussion of modern experimental methods. Prerequisites: PHY 3123, 3124.

PHS 5404 Solld State Physics (3). Crystalline form of solids, lattice dynamics, metals, insulators, semiconductors, and dielectric materials. Prerequisites: PHY 3048, 3049, CHM 1045, 1046, and PHY 3124 or CHM 3411.

PHY 2023 Survey of General Physics (3), Units, quantities, Newton's laws, work, momentum, fluids, heat, gas laws, waves, charge and current, electric fields, circuits, light, atomic and nuclear physics. Prerequisites: Algebra, trigonometry (high school).

PHY 3048, PHY 3049 Physics with Celculus (5,5). Basic physics with calculus sequence. PHY 3048 will cover kinematics, Newton's Laws, conservation laws, gravitation, Iluids, sound, and thermodynamics. Prerequisite: MAC 3311. Pre or Co-requisite: MAC 3312. PHY 3049 will cover electricity and magnetism, field theory, geometrical and wave optics.

PHY 3048L, PHY 3049L General Physics Laboratory I, II (1,1). Laboratory sections of PHY 3048, 3049, PHY 3053, 3054. Prerequisites or Corequisites: PHY 3048, PHY 3049, PHY 3053. PHY 3054.

PHY 3053, PHY 3054 Physics without Calculus (4,4). A general introductory course using a non-calculus approach. PHY 3053 covers kinematics, Newtonian mechanics, properties of Illuids, thermodynamics, and wave motion. PHY 3054 covers electricity and magnetism, geometrical and wave optics and the structure of matter. Prerequisites: College algebra, trigonometry, and analytic geometry.

PHY 3123, PHY 3124 Modern Physics (3,3). Recent developments in physics are discussed Subject matter includes: review of classical physics, special relativity, four-vectors, wave-particle duality, the hydrogen atom, many electron atoms, nuclear instrumentation, nuclear structure, nuclear reactions, elementary particles, introduction to quantum mechanics, and solid state physics. Prerequisities: PHY 3048, 3049.

PHY 3424 Optics (3). General formulation of geometrical optics including matrix techniques, interference phenomena, and the theory of Fraunhofer and Fresnel diffraction are among the topics covered. Prerequisites: PHY 3048, 3049.

PHY 3503 Thermodynamics (3). Fundamental principles of thermodynamics, the first, second, and third laws, free energy, entropy, the chemical potential, phase rule and its applications. Prerequisites: PHY 3048, 3049. CHM 1045. 1046.

PHY 3772 Electronics (3). Solid state theory and the theory of circuits, circuit operation and design in lecture and laboratory sessions. Prerequisites: PHY 3048, 3049.

PHY 3949, PHY 4949 Cooperative Education in Physics (1-3). One semester of full-time supervised work in an outside laboratory taking part in the University Co-Op Program. Limited to students admitted to the Co-op Program. A written report and supervisor evaluation will be required of each student.

PHY 4221 PHY 4222 Intermediate Classical Mechanics I & II (3,3). Laws of motion, statics of particles and rigid bodies, motion of particles in one, two, and three dimensions, systems of particles, rigid bodies in a plane, central forces. Accelerated reference systems, rigid body in three dimensions, generalized coordinates, Lagrangian and Hamiltonian formulations of mechanics, vibrating systems, and normal coordinates. Prerequisites: MAC 3313, PHY 3048, 3049.

PHY 4323, PHY 4324 Intermediate Electromagnetism I and II (3,3). The theory of electromagnetic fields and waves is developed from basic principles. Vector calculus, Coulomb's law, Gauss's Law, electrostatic potential, dielectrics, solutions to Laplace's and Poisson's equations, magnetic induction, vector potential, dielectrics, solutions to Laplace's equations magnetic materials, Maxwell's equations, and propagation of waves in space and various media are discussed. Prerequisites: MAC 3313, PHY 3048 and 3049.

PHY 4513 Statistical Thermodynamics (3). Review of the fundamental laws of

thermodynamics applied to simple systems. Elementary kinetic theory of gases applied to diffusion, viscosity, thermal and electrical conductivity. Boltzmann, Fermi-Dirac and Bose-Einstein distribution functions applied in the Boltzmann limit to the calculation of thermodynamic variables. Prerequisites: MAC 3313, PHY 3048, 3049.

PHY 4604 Quantum Mechanics I (3). A comprehensive introduction to quantum mechanics. Wave mechanics applied to standard one dimensional problems and the hydrogen atom. Prerequisites: MAP 3302, PHY 3048, PHY 3049.

PHY 4605 Quantum Mechanics II (3). General matrix formalism, angular momentum, symmetries, perturbation theory and variational methods, an introduction to relativistic theory and theory of fields. Prerequisite: PHY 4604.

PHY 4752L Introduction to Scientific instrumentation (3). The student learns to set up and operate such standard pieces of laboratory apparatus as bridges, amplifiers, oscilloscopes, frequency counters, flowmeters, and thermocouple circuits utilizing chart recorders. A background in general physics is required.

PHY 4810L, PHY 4811L, PHY 4812L Senlor Physics Lab (3). Advanced laboratory topics are treated. Modem physics laboratory equipment is used and the student is introduced to current laboratory practice. Prerequisites: PHY 3048 and 3049.

PHY 4905, PHY 4906, PHY 4907 Independent Study (3). The student works under the supervision of a faculty member on subject matter of mutual interest. Instructor's permission is required.

PHY 4921 Synopsis of Undergraduate Physics (1). A comprehensive review of undergraduate physics given in seminar form on subjects of special interest to the students attending. For seniors only.

PHY 4936, PHY 4937, PHY 4938 Special Topics (VAR). A study of topics of special physics interest.

PHY 5115 Mathematical Physics I (3). Methods of solution for problems in mathematical physics: Variational principles, complex variables, partial differential equations, integral equations, and transforms. Prerequisites: MAC 3313, MAP 3302.

PHY 5116 Mathematical Physics II (3). Additional solution methods in mathematical physics: Perturbation methods, Laplace's and Poisson's Equations, waves, special functions, vector fields, vector waves. Prerequisite: PHY 5115.

PHY 5240 Advanced Classical Mechanics (3). Advanced formulations of the equations of motion and their applications: the central field problem, rigid body dynamics, oscillations and continuous systems. Prerequisite: PHY 4222

PHY 5346 Advanced Electromagnetic Theory I (3). Advanced treatment of classical electromagnetism:
Electrostatics, Green's function,
Laplace's equation, multipole expansion, magnetostatics, Maxwell's equations, waves. Prerequisite: PHY 4324.

PHY 5347 Advanced Electromagnetic Theory It (3). Additional topics in classical electomagnetism: Wave guides, radiating and diffracting systems, Kirchoffs integral for diffraction, covariant formulation of field equations. Prerequisite: PHY 5346.

PHY 5910 Physics Research (1-10). Students participate in an original investigation in theoretical or experimental physics under direct faculty supervision. Repeatable. Prerequisite: Permission of Department.

PHY 5930 Seminar In Theoretical Physics (3). The theoretical foundation of classical mechanics, relativity, lields, quantum mechanics, group theory, and relativity. Prerequisites: PHY 3123, 3124, PHY 4221, 4222.

PHY 5936, PHY 5937, PHY 5938
Seminar in Special Topics (3). Seminar
work under the supervision of a faculty
member on subject material of mutual
interest.

PHY 6255 Molecular Blophysics (3). The use of theoretical physics tochniques to investigate biological systems: Protein structure and dynamics, electron tunneling, nuclear tunneling, hemoglobin, photosynthesis, vision. Pererquisito PHY 6645

PHY 6524 Statistical Physics (3). Fundamental principles of statistical mechanics; fluctuations, noise and irreversible thermodynamics, kinetic methods and transport theory Prerequisites. PHY 3503, PHY 4222

PHY 6645 Advanced Quentum Mechanics I (3) Advanced topics in quantum mechanics. Quantized systems, relativistic quantum mechanics, potential scattering. Prorequisite. PHY 4605.

PHY 6646 Advanced Quantum Mechanics II (3). Additional topics in advanced quantum mechanics: Collision theory, symmetry transformations, conservation laws, group theory. Prerequisite: PHY 6645.

PHY 6651 Quantum Scattering Theory I (3). The investigation of atomic and electronic scattering processes: Potential scattering, long range potentials, electron-atom collisions. Pereguisite: PHY 6645.

PHY 6652 Quantum Scattering Theory II (3). The mathematical investigation of scattering processes: Auto-ionization, fast vs. slow collisions, Regge poles, S and T matrices. Prerequisite: PHY 6651.

PHY 6668 Relativiatic Quantum Field Theory I (3). Introduction to relativistic quantum fields: General formalism, Klein-Gordon field, Dirac field, vector fields, interacting fields, CPT theorem, reduction formulae, gauge theory. Prerequisite: PHY 6646.

PHY 6669 Relativistic Quantum Field II (3). Additional topics in relativistic quantum fields: perturbation theory, U matrix, Wick's theorem, dispersion relations, renormalization, Ward identity, renormalization group, path integral formalism. Prerequisite: PHY 6668.

PHY 6675 Quantum Theory of Many Particle Systems I (3). An introduction to the physics of many particle systems: Second quantization, Fock spaces, Boson and Fermion symmetry, Gell-Mann-Low theorem, diagrammatic expansions, Goldstone theorem. Prerequisite: PHY 6646.

PHY 6676 Quantum Theory of Many Particle Systems II (3), Additional topics in the physics of many particle systems: Fermi gas, Bose condensation, Hartree-Fock approximation, random phase approximation, finite temperature formalism, hadrons. Prerequisite: PHY 6675.

PHY 6970 Thesis Research (1-10). Research toward completion of Master's Thosis. Repeatable. Prorequisite Permission of Department

PHY 6971 Master's Thesis (3). Theoretical and/or experimental research loading to thesis Prerequisite Permission of major professor

PHY 7980 Dissertation Research (1-9). Students conduct dissertation research at the doctoral level in theoretical or experimental physics under faculty supervision Prerequisite Permission of instructor. PHZ 4710 Introduction to Blophysics (3). Physical investigation of biological molecules with special reference to structure and function of protein, biomembranes and visual receptors. Prerequisite: PHY 3124 or CHM 3411.

PHZ 5130 Theoretical Treatment of Experimental Data (3). Statistical analysis of physical processes and statistical tests, with particular emphasis on instrumentation-related problems. Mathematical modeling and computer simulation. Prerequisite: Undergraduate statistics course, or equivalent, or permission of instructor.

PHZ 5234 Atomic and Molecular Collision Phenomena (3). Investigation of atomic and molecular collision phenomena: Kinetic theory, elastic scattering, inelastic scattering, excitation and ionization, heavy particle collisions. Prerequisites: PHY 4605 and PHY 4222.

PHZ 5505 Low Energy Plasma Physics (3). The investigation of the kinetics of rarefied gases and thermal plasmas: Phase space, random currents, orbit theory, plasma sheaths, radiation, the pinch effect. Prerequisites: PHY 3503, PHY 4324, and PHY 4222.

PHZ 5606 Special Relativity (3). A detailed study of special relativity: Lorentz transformations, relativistic electrodynamics. Prerequisite: PHY 3124.

PHZ 6326 Low Energy Nuclear Physics I (3) Introduction to the physics of nuclei and nuclear processes: Nuclear forces, scattering processes and nuclear models. Prerequisite: PHY 4605

PHZ 6327 Low Energy Nuclear
Physics II (3). Additional topics in
nuclear physics: The shell and collective
models, nuclear reactions and
applications, scattering theory, entrance
channel phenomena, rearrangement
collision and breakup reactions.
Preroquisite PHZ 6326

PHZ 6354 Introduction to Particle
Physics (3). An introduction to modern
particle theory. Elementary field theory,
symmetries, quantum electrodynamics,
quark parton model, quantum
chromodynamics, Weinberg Salam
model. Pterequisite. PHY 6646

Political Science

Joel Gottlleb, Assistant Professor and Chairperson Bruce Detwiler, Assistant Professor

Eduardo Gamarra, Assistant Professor Antonio Jorge, Professor Darlo Moreno, Assistant Professor

Brlan Nelson, Associate Professor NIcol Rae, Assistant Professor Mark Rosenberg, Professor Cheryl Rubenberg, Associate Professor

Rebecca Salokar, Visiting Instructor John Stack, Professor Judith H. Stlehm, Professor and Provost

Mary Volcansek, Professor Christopher Warren, Associate Professor

Degree: Bachelor of Arts

The major in Political Science provides students the opportunity to acquire a broad education that will equip them to adapt to a wide variety of careers. The program for majors is designed to encourage the analysis of theories, institutions, and processes of political systems in the context provided by the social sciences: to stimulate a grasp of the broad sweep of political science as a discipline; to develop a continuing and responsible interest in political activity and public affairs; to provide the opportunity to acquire a fundamental understanding of political science as a basis for citizenship, a career in government, or professional study and service; and to stimulate the qualified student's interest in graduate study in political science.

The curriculum is designed to expose students to the various areas of Political Science and to allow for some specialization. Students are encouraged to create a blend of courses that fit their interests. You should work with your faculty advisor in selecting courses. The Department will ensure that sufficient course choices will be available to meet the curriculum requirements over a twoyear cycle.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

If a student has completed a minimum of 24 semester hours of general education credits, it is still possible to be accepted into this program. However, the general education deficiencies need to be completed prior to graduation from the University. Listed below are the required and recommended courses to enter this upper division major:

Curriculum for Political Science Majors

A minimum of thirty credit hours of upper division study (3000 and 4000 level) are required for a major in Political Science. In addition, POS 2042-American Government, or its equivalent, is

required but does not count toward the 30 credit minimum. The American Government course at the community college meets this requirement. Students who have not met this requirement should take this course in their first semester at FIU. No specific upper division courses are required. Rather, courses in Political Science must be distributed so that five courses. meet the Breadth requirement, three courses meet the Depth requirement. and two remaining courses meet the Political Science Electives requirement. The student must earn a grade of C or better in all Political Science courses credited toward the major. Students choosing to major in Political Science must officially declare their major by completing applicable forms. See the department secretary for assistance.

Required Courses: American Government

Recommended Courses State and Local Government 3 International Relations 3 American or World History 6 3 **Economics** Introduction to Logic 3 Advanced Composition 3 Mathematics or Statistics

Remarks: The American Government requirement may be fulfilled by taking either POS 2042 or POS 3044 at entrance to the University, concurrently if desired, with other requirements of the major, Neither POS 3044 nor POS 2042 will fulfill either the breadth or depth requirements of the major.

Upper Division Program

1. Breadth Requirements: One course in each of the following fields:

A----I--- D-Dalas (AD)

American Po	DIITICS (AP)	
PAD 3003	The Administrative	
	Process	3
POS 3153	Urban Politics	3
POS 3413	The Presidency	3
POS 3424	The Legislative	
	Process	3
POS 3453	Political Parties	3
Judicial Politics (JP)		

Judicial Polit	lcs (JP)	
POS 3283	The Judicial Process	3
POS 3603	Constitutional Law:	
	Powers	3
POS 3604	Constitutional Law:	
	Limits	3

Comparative Politics (CP)

CPO 3055	Authoritarian Politics	3
CPO 3103	Government and Polit	ics
	of Western Europe	3
CPO 3304	Latin American	
	Politics	3
CPO 3502	Government and Polit	ics
	of the Far Fast	3

CPO 3643 Government and Politics of the Soviet Union

and Eastern Europe

Ancient and Medieval

Political Ideologies

3

Internationa	1 Politics (IP)	
INR 3002	Dynamics of World	
	Politics	3
INR 3102	American Foreign	
	Policy	3

Political Theory and Methodology

POT 3013

POT 3302

3

	Political Theory	3
POT 3054	Modern Political	
	Theory I	3
POT 3055	Modern Political	
	Theory II	3
POT 3064	Contemporary	
	Political Theory	3
POT 3104	American	
	Political Thought	3

2. Depth Requirements: Three courses in any one of these three areas of concentration, in addition to two courses in any area of concentration.

a. American/Judicial Politics (AP, JP): Courses chosen may be all 'AP' or 'JP' or a mix of both.

b. Comparative/International Politics (CP,IP): Courses chosen may be all 'CP' or 'IP' or a mix of both.

c. Political Theory (PT)

3. Required Electives in Political Science: The remaining courses necessary to complete the B.A. requirements may be taken outside the major but are normally chosen to complement the student's academic and career interests.

Minor in Political Science

1.No required courses, but note that POS 3044 will not count toward the minor.

2. Minimum of live courses in Political Science

3. Maximum of one course each in Political Science internships and independent studies may apply to the 5 course requirement.

Pre-Law Students

The Department of Political Science recognizes the interests and needs of the Political Science major who plans to attend law school. The basic skills important to a pre-law student include:

how to think logically,

(2) how to read intelligently, and

(3) how to express oneself clearly

These skills are developed in a number of disciplines. Beyond these basic skills, the department encourages students to acquire a broad background in political science rather than to select

only courses which deal with public law. Some prelaw students choose American or Judicial politics as their depth area, but the other two depth areas are equally useful for prelaw students. The department's Prelaw Advisors will counsel students on specific prelaw concerns.

In selecting electives, students should remember that the LSAT and law school require the ability to read with comprehension of concepts and logic and to express oneself with clarity and precision. Whether or not a given student will benefit from a particular elective is a question best answered by the student in close consultation with an advisor. Courses in History, Philosophy, Economics, Sociology, Psychology, Math. and English will probably all give the student practice in relevant skills. Breath of preparation is important. Whether a particular course in logic. writing or another area is the best choice, can only be answered on an individual basis

Internships: The Department provides the student with opportunities for workstudy experiences in governmental and non-governmental agencies. Five categories of internships are available to students: (1) judicial internships, (2) administrative internships, (3) legislative internships, (4) campaign internships, and (5) international internships. Standards for enrollment as an intern student include:

1. Enrollment is by permission of instructor only. A student wishing to enroll as a public affairs intern should consult with the appropriate faculty members and receive written permission to enroll. Ordinarily, specified courses must be taken prior to or concurrent with the internship.

2. A political science major may count a maximum of six credit hours in internships toward his major. Three additional hours may be counted as electives for a maximum of nine credit hours in internship in political science.

 All public affairs internships in political science will be on a 'Credit No Credit' basis. For turther information, contact the Department of Political Science.

Upper Division Transfer Credit: As a general rule, students will receive transfer credits for junior and senior level courses in political science with a grade of 'C' or higher. These courses may then be applied to the 30 credit hours requirement for majors in political science

Major Advising Program: All new majors meet with the Department Chairperson prior to being assigned an

advisor. All advisors are members of the political science faculty and meet with students on a regular basis to discuss program design and scheduling matters.

A Note to North Mismi Majors

At this time, to major in Political Science at North Miami, students for all practical purposes must choose American Politics/Judicial Politics as their depth area. Of course, students may choose their depth area in Comparative Politics/International Politics or Political Theory if they are willing to take some courses at University Park. North Miami students are particularly well-advised to plan ahead and discuss their program of studies with a Political Studies Advisor.

Course Descriptions

Definition of Prefixes
CPO-Comparative Politics; INRInternational Relations; PAD-Public
Administration; POS-Political Science;
POT-Political Theory; PUP Public Policy.

CPO 3001 Introduction to Comparative Politica (3). Using a country approach focusing on the Soviet Union, China, Egypt, Israel, and Britain, will analyze differences and similarities among these systems. Stress on state building, development, institutions, patterns of political interaction, and comparative elites.

CPO 3055 AuthorItarian Politics (CP) (3). The purpose of this course is to identify the conceptual and empirical characteristics of authoritarian regimes. An ideal typical authoritarian regime will be established, followed by case study analyses of modern authoritarian systems, like those of Brazil, Mexico, and Portugal. The course is designed to analyze the circumstances giving rise to non-totalitarian modern dictatorships, their political dynamics, and their survival capability.

CPO 3103 Government and Politics of Western Europe (CP) (3). Studies of political systems of the major European countries on a comparative basis. Attention is focused on such factors as political party systems, the cabinet form of government, and the politics of the Common Market. Considers the implications of the impact of mass society on these nations. Enables the students to better understand the nations which have supplied many of the theoretical foundations of modern politics.

CPO 3304 Latin American Politics (CP,PT) (3). This course analyzes the multiple structures, processes, and groups which are relevant to an understanding of Latin American political economy. Of special interest are the political impacts of land and wealth inequality and economic dependency. The dynamics of Latin American politics are considered, with an emphasis on the role of the military and the church. Alternate strategies for modernizing the region are considered.

CPO 3340 Politics of Mexico (CP) (3). This course analyzes the structure and process of the Mexican political system from four perspectives: 1) Mexico's revolutionary heritage; 2) its formal governmental structure; 3) formal political relations; and 4) the structure and process of Mexican political economy.

CPO 3401 The Areb-Israell Conflict (CP/IP) (3). This course provides the student with an introduction to the political roots of the Middle East conflict, and examines the dilemmas of finding a solution by focusing on the domestic and international constraints imposed upon the major actors.

CPO 3403 Polltics of the Middle East (3). This course will focus on the social, cultural, and political aspects of the Middle East region. Through an understanding and an interweaving of these complex facets, a student should gain a foundation and background for comprehension of the contemporary conflict which pervades this mercurial region.

CPO 3502 Government and Politics of Far East (CP) (3). An intensive examination of the major political institutions of China, Japan, and Korea. A critical analysis of changing aspects of traditional relationships in Far Eastern political culture and major reform movements in contemporary Far Eastern politics. Allows the student to botter understand nations whose political development will be an important factor in global development.

CPO 3541 Government and Pollitics of China (CP) (3). This course introduces students to China's pollical history from 1840-1982, and analyzos politics in the People's Republic of China with special emphasis on political and economic development, socio-economic and political conflict, ideology, and loreign policy

CPO 3643 Government and Politics of the Soviet Union and Eastern Europe (CP) (3). An intensive examination of the political structures and institutions of the Soviet Union and East European Communist states Particular attention is paid to the historical and cultural underpinnings of the Soviet regime. The role of the Marxist-Leninist ideology in shaping policy processes and content is given careful analysis.

CPO 4002 Theory In Comparative Politics (CP) (3). This course introduces students to research strategies, concepts, and theories of comparative politics. There will be a focus on the three predominant types of modern political systems (democracy, authoritarianism, and totalitarianism), followed by an examination of the current theoretical approaches to studying cross-national political behavior.

CPO 4005 Topics in Comparative Politics (CP) (VAR). An intensive examination of selected political topics from a cross-national point of view. The subjects will vary, depending upon the desire of both students and faculty. Allows the student to choose topics of particular interest to him or her.

CPO 4034 The Politics of Development and Underdevelopment (CP/IP) (3). This course is an analysis of the causes of development and underdevelopment in Third and Fourth World countries. It includes an analysis of major theoretical approaches to understanding development problems, as well as an analysis of the roles of major national and non-national actors.

CPO 4053 Political Repression and Human Rights (CP) (3). Examination of domestic factors resulting in political repression and violations of human rights. American, European, and South American examples will be used.

CPO 4063 Comparative Socialist Systems (CP) (3). Differences and similarities among socialist countries are explored and explained. Focus on China, Soviet Union, Yugoslavia, and Cuba. Stress development, ideology, change, structures, the Party, control, and foreign policy.

CPO 4072 Comparative Electoral Behavior (CP) (3). Public opinion, voting choice, and electoral patterns from a comparative and historical perspective. Attention will locus on West Europe and Latin America. Differences from North American trends and patterns will also be detailed.

CPO 4303 Government and Politics of South Americe (CP) (3). A cross-national discussion of the political systems and cultures of the Latin American nations, with special emphasis on the larger countries. Attention is given to the role of the military and to the

problem of violence. Designed to give the student an overview of the political life of the nations with whom we share this hemisphere.

CPO 4323 Government and Politics of the Carlbbean (CP) (3). Studies the political system of the major British, French, Dutch, and Spanish areas in the Caribbean basin. Attention is focused on such factors as political party democracies in a non-industrial setting. The paradoxes between modernity and tradition throughout the developing Caribbean, and the relationship between politics, economics, and culture are discussed. The student is helped to understand the dynamics of change in an important area of the world and to compare those dynamics with change in his own country.

CPO 4333 Central American Politics (CP) (3). This course analyzes the historical and contemporary political dynamics of the five countries of Central America, Special attention is given to problems of development and modernization within the context of the region's economic dependence on the United States. Special attention is given to the problem of political restraints on the modernization process and to those regional arrangements which have been created to solve the area's problems. The student will develop a better understanding of a region which has close ties to the United States.

CPO 4360 Cuban Politics (CP) (3). Examines the course of twentieth century Cuban politics. The course is subdivided into five parts covering the three periods of relatively stable politics and the two major revolutions.

CPO 5035 Politics of Development (5). This course examines divergent explanations for development and underdevelopment. Of central importance are the concepts and theories which emphasize the political dimensions of development, including theory and concept, processes of development, and actors in the development process.

CPO 5935 Topics In Comparative Politics (3). An intensive examination of selected political topics from a crossnational point of view. The subjects will vary, depending upon the desire of both students and faculty. Allows the student to choose topics of particular interest to him or her.

CPO 6936 Seminar in Comparative Politics (3). Graduate seminar on special topic in comparative politics.

Topic to be announced in advance. INR 3002 Dynemics of World Polltics (IP) (3). An examination of the political forces which shape the actors, institutions, and processes of world politics. Special attention is given to the role of transnational forces.

INR 3102 American Foreign Policy (IP, AP) (3). An examination of the legal, administrative, and political structure by which American foreign policies are formulated and implemented, includes a discussion of the objectives and consequences of United States foreign policy in selected regional, social-economic, and ideological areas. Enables the student to understand the procedures by which foreign policy is made and implemented in the United States.

INR 3403 International Law (IP,JP) (3). The law of nations, including the laws of war. Includes a discussion of the development of legal norms applicable to the international arena, from both Western and non-Western perspectives. Examines the emerging body of transnational law in social, economic, and technological areas of international relations. Enables the student to understand the difficulties involved in maintaining world peace.

INR 4084 Ethnicity In World Politics (IP) (3). This course examines the political dimensions of ethnic conflict from a comparative perspective. It evaluates the dynamics of ethnic conflict in Western Europe, Africa, Latin America, and the United Stales, through a series of case studies.

INR 4204 Comparative Foreign Policy (CP,IP) (3). This course is an analysis of the development of the foreign policymaking process in the United States, Britain, France, West Germany, and Italy. Particular attention is directed to the domestic and international factors which affect the making of foreign policy.

INR 4244 Latin Americen in World Politics (CP, IP) (3). This course will be primarily concerned with Latin America's role in the world political system. Of special interest will be the impact of the North-South split on Latin America, and in particular Latin America's relationship to the United States. Key issues of international politics concerning Latin America, including the Panama Canal, will be selected for study.

INR 4407 Political Foundations of International Law (IP,JP) (3). An examination of the interaction between politics and international law, with particular emphasis on such interaction during the present century. The role of international institutions in the modifying of existing international law concepts and the developing of such concepts is also examined.

INR 4501 Multinational Organizations (IP) (3). The course examines contemporary international politics through an analysis of intergovernmental and non-governmental actors. It emphasizes the prominent role played by increasing levels of transnational relations, interdependence, and clobal dominance in world politics.

INR 4931 Topics in International Relations (IP) (VAR). An intensive examination of selected topics with an international dimension. Subjects will vary, depending upon the desires of both students and faculty. Allows the student to choose topics of particular interest to him or her.

INR 4932 Topics in the Politics of International Law (IR) (1-3). An examination of selected topics in international law. Subjects will vary (including, for instance, the political dimension of international law) depending upon the desires of both students and faculty. Allows the student to choose topics of oparticular interest to him or her.

INR 4942 International Internship (VAR). An opportunity for the student to participate in a selected policy area within one of the communities of South Florida. The nature of the work to be accomplished in connection with the internship will be worked out between student and advisor

INR 5087 Ethnicity and the Politics of Development (3). This course examines the conceptual and substantive dimensions of ethnicity in the context of world politics and political development. The course will highlight ethnicity and ethnic groups as critical factors in North-South politics.

INR 5414 Topics in International Law (3). An intensive examination of the political dimensions of international law in the context of rapidly changing global political relations.

INR 5933 Topice in International Politics (3). An intensive examination of selected topics with an international dimension. Subjects will vary, depending upon the desires of both students and faculty. Allows the student to choose topics of particular interest to him or her

INR 6007 Seminar in International Politics (3). Graduate seminar on special topic in international politics

Topic to be announced in advance. INR 6205 World Polltica (3). This course provides graduate students with an understanding of the major conceptual approaches to world politics. It emphasizes the analysis of significant actors, institutions, and processes at work in the contemporary global system as well as possible future alternatives.

INR 6939 Seminar in International Law (3). Allows for specialized and topical offerings by regular and visiting faculty. Also permits experimental courses.

PAD 3003 The Administrative Process (AP) (3). An introduction to the political environment of administrative decision-making in public agencies. Special emphasis is placed upon the politic of budgeting, personnel management, organizational requirements, and policy making.

PAD 4944 Administrative Internship (VAR). An opportunity for the student to participate in a selected policy area within one of the communities of South Florida. The nature of the work to be accomplished in connection with the internship will be worked out between student and advisor

POS 2042 American Government (3). Power distribution and policy-making in U.S. Topics include political change; role of majorities; minorities; media, elections in U.S. politics; national institutions; and Florida state and local government.

POS 3044 Government and Politics of the U.S. (AP) (3). An examination of the formal and informal linkages between the private and public sectors and the sets of relationships which govern each. Particular attention is devoted to the exploration of the political role of business and the close but uneasy relationship between private enterprise and democracy.

POS 3071 Corporate Power and American Politics (3). An examination of the origin and development, structure and operation of the Government of the United States, with an emphasis on the characteristics and political consequences of federalism. Allows the student to develop a better understanding of the political system in which he or she lives

POS 3153 Urban Politics (AP) (3). An social conflicts in American urban areas are represented and regulated Emphasis is placed on how urban problems are identified; and the way proposed solutions are formulated, legitimatized, and administered by urban policy-making processes. Includes a discussion of urban political culture. Enables the student to understand major problems confronting communities in urban areas.

POS 3283 The Judicial Process (JP) (3). An introduction to the study of public law. Examines the relationship between politics and judicial structure and process. Emphasizes the judicial system as a particular kind of policy-making system, and evaluates its strengths and weaknesses from a policy-making perspective.

POS 3413 The Presidency (AP) (3). An examination of the various interpretations of the Presidency. Attention is directed to the role of the President in a technocratic society. Enables the student to understand one of the most visible political institutions.

POS 3424 The Legislative Process (AP) (3). Examines the context and process of legislative decision- making, including the impact of elections, groups, bureaucracies, and the norms of legislative behavior. Evaluates legislatures in light of various theories of representation and conflict- management.

POS 3453 Political Parties (AP) (3). Studies the internal structure, political functions, and behavior of modern political parties. Attention is given to the relationships between political parties and various economic, ethnic, and regional interest. Enables the student to understand the problems of expressing and structuring political domands to facilitate or obstruct governmental decision-making.

POS 3603 Constitutional Law: Powers (JP) (3). An examination of the basic principles of American government, as defined through constitutional law Focus will be on the nature of the union, tederalism national government powers, separation of powers, state government powers, and powers of the respective branches of government

POS 3604 Constitutional Law: Limitations (JP) (3). An examination of the limitations on government as defined by the Supreme Court through constitutional law Focus will be on the limitations of government with respect to the rights of the individual, of groups, and of the states. Particular attention will be paid to civil rights, civil liberties, the rights of the accused, political rights, and economic liberties.

POS 3703 Methods of Political Analysis (PT) (3), An introduction to the principal concepts and techniques of data collection and organization in political science. Includes practical exercise in data collection and organization. Highly recommended for those planning graduate study.

POS 3949 Cooperative Education In Political Science (3). A student majoring in Political Science may spend several semesters fully employed in industry or government in a capacity relating to the major.

POS 4122 State Government and Politics (AP) (3). A study of the political processes, structure, and development of state systems. This course attempts to provide the student with an understanding of the basic structure of state government and political processes.

POS 4154 Topics In Urban Politics and Policy (AP) (3). An examination of the processes by which social conflicts in American urban areas are represented and regulated. Emphasis is on the ways in which urban problems are identified and proposed solutions formulated, legitimatized, and administered by urban policy-making processes, includes a discussion of urban political culture. Enables the student to understand the major problems confronting communities in urban areas.

POS 4233 OpInion and Electoral Behavlor (AP) (3). An examination of the social and psychological factors shaping public opinion and voting choice. Particular attention will be directed to the nature of trends and pattems in electoral results and systemic elements influencing such patterns.

POS 4253 Pollitical Violence and Revolution (CP, PT) (3). An examination of major historical instances and modern expressions of political violence; discussion of revolution from a comparative perspective. Attention will focus on the social origin and political determinants of such events.

POS 4284 Judicial Behavior (JP) (3). An examination of various approaches, theories, and findings on the behavior of judicial actors, particularly as it relates to judicial decision-making. The focus of the course will be on judges, lawyers, prosecutors, and other relevant actors in the judicial process.

POS 4463 Interest Group Politics (AP) (3). An examination of the various types of voluntary associations which seek to influence the political process. Special attention is given to the role of private

power in a pluralist system. Enables the student to understand the ambivalent American attitude towards pressure groups and lobbying activities in the legislative and administrative arenas.

POS 4493 Politics of Judicial Administration (JP) (3). This course is designed to examine the process of judicial administration, particularly from the political perspective. The politics of selecting judicial personnel, financing, budgeting, disposition of litigation, reorganization, and inter-governmental relations will be included.

POS 4496 Comparative Judicial Politics (JP, CP) (3). An examination of the various modes of dispute settlement and rule adjudication cross-culturally. Emphasis is on the similarities and differences of judicial behavior, judicial decision-making, judicial recruitment, and judicial powers in cross-national analysis.

POS 4713 The Logic of Deta Anelysis in Political Science (PT) (3). An introduction to the major concepts employed in the analysis of political data. Emphasis is on the logic of explanation rather than the techniques of such explanation. This is not a course in statistical method. Highly recommended for those planning graduate study.

POS 4905 Independent Study (VAR). By arrangement with the instructor.

POS 4930 Topics in Public Law (3). An examination of selected topics in the field of public law. The subjects will vary appending upon the desires of students and faculty.

POS 4933 Topics in Politics (VAR). Subject matter varies according to instructor.

POS 4935 Honors Seminar (VAR). Subject matter varies according to instructor.

POS 4941 Legislative Internship (AP) (VAR). An opportunity for the student to participate in a selected policy area within one of the communities of South Florida. The nature of the work to be accomplished in connection with the internship will be worked out between the student and advisor.

POS 4944 Judiclal Internship (JP) (VAR). An opportunity for the student to participate in a selected policy area within one of the communities of South Florida. The nature of the work to be accomplished in connection with the internship will be worked out between the student and advisor.

POS 4949 Cooperative Education in Political Science (3). A student majoring in Political Science may spend one or two semesters fully employed in industry or government in a capacity relating to the major.

POS 5606 Topics in Public Lew (JP) (VAR). An intensive examination of selected topics in the lield of public law. The subjects will vary depending upon the desires of students and faculty.

POS 5706 Methodology (3). This course is an introduction to the principal concepts and techniques of quantitative and non-quantitative methodology in the Social Sciences. It is designed to familiarize the student with the language and format of quantitative and non-quantitative applications in order to permit students to deal effectively with the literature of the their field.

POS 5909 independent Study (VAR). By arrangement with instructor.

POS 5932 Topics In Urban Politics (VAR). An extensive examination of the processes by which social conflicts in American urban areas are represented and regulated. Emphasis is on the ways in which urban problems are identified and proposed solutions formulated, legitimatized, and administered by urban policy-making processes, includes a discussion of urban political culture. Enables the student to understand the major problems confronting communities in urban areas.

POS 5934 Topics In Politics (VAR). Subject matter varies according to instructor.

POS 6146 Seminar in Urban Politica (VAR). Graduate seminar on special topics in urban politics. Topic to be announced in advance.

POS 6934 Seminar In Politics (VAR). Subject matter varies according to instructor

POS 6939 Seminer in Public Law (VAR). Graduate seminar on special topic in public law. Topic to be announced in advance

POS 6976 Thesis (1-6). Requires students to enroll for thesis or dissertation research for at least one credit hour every semester in which they are engaged in such research. Prerequisites: All other coursework for the Master's in International Studies.

POT 2002 Introduction to Political Theory (3). The efforts of six writers - as

diverse as Plato and Marx - to address from a political perspective such issues as freedom, justice, the individual and the state, and who should rule, are examined.

POT 3013 Ancient and Medleval Political Theory (PT) (3). A study of the major political philosophers of the ancient and medieval periods. Primary emphasis is given to the Greek experience. The nature of political theory as a tradition of discourse is examined.

POT 3054 Modern Political Theory I (PT) (3). An analysis of the thought of the great political thinkers since Machiavelli, culminating with the nineteenth century theorists. Basic themes and ideas common to all these political theorists will be discussed in detail. The problem of modernity will receive special attention.

POT 3055 Modern Political Theory II (PT) (3). An analysis of the thought of the great political thinkers of the late eighteenth, nineteenth, and early twentieth centuries. Primary emphasis is given to the important nineteenth century theorists such as J. S. Mill, Marx, and de Tocqueville. Their theoretical treatment of such modern political phenomena as the masses, bureaucracy, democracy, liberty, and violence is extensively analyzed.

POT 3064 Contemporary Political Theory (PT) (3). An overview of the major conceptual frameworks used by political theorists to describe, explain, and evaluate political behavior and processes. Stress is placed on political theory, not only as a basis for inquiry, but also as a base for political action. This course enables the student to develop analytical abilities with which to interpret the political events of his or her time.

POT 3204 American Political Thought (PT) (3). An examination of American political thought from its 17th century origins to the contemporary period. The continuities and discontinuities in the development of American political ideas since colonial times will receive special attention.

POT 3302 Political Ideologies (PT) (3). An analysis of modern political ideologies since the French Revolution, including liberalism, consorvatism, and socialism. Particular emphasis will be given to Marxism. The contemporary link between ideology and totalitarianism will be examined.

POT 4930 Topics in Political Theory (PT) (VAR). An intensive examination of selected topics dealing with political theory. Subjects will vary, depending upon the desires of students and faculty

POT 5934 Topics in Political Theory (AP) (VAR). An intensive examination of selected topics dealing with political theory. Subjects will vary, depending upon the desires of students and faculty. Allows the student to choose topics of particular interest to him or her.

PUP 4004 Public Policy: U.S. (AP) (3). An intensive examination of the theory and practice of formulating, legitimatizing, administering, and evaluating public policy. Includes a discussion of the role of administrators, legislators, courts, interest groups and political parties in their processes. Gives the student an analytical basis for understanding and participating in the making of public policy in a variety of policy areas. Prerequisite: Prior work in American institutions: The Congress, Presidency, or Judicial.

PUP 4203 Environmental Politics and the Law (AP) (3). An analysis of how the political and legal systems are responding to the risks of pollution and the adverse impacts of development on human health and survival and on natural resources, wilderness, wetlands, and wildlife.

PUP 4314 American Ethnic Politics (AP) (3). This course examines American ethnic politics from conceptual and substantive perspectives. Special attention is devoted to the theoretical dynamics of ethnicity as well as an intensive investigation of Irish, Italian, Jewish, and Black ethnic politics.

PUP 4323 Women In Politics (AP) (3). Examines the role of women in the political system as they act within, and are affected by, politics. Special attention to current and enduring political issues which particularly affect women.

PUP 4931 Topics in Public Policy (VAR). An examination of selected topics dealing with public policy. Subjects will vary, depending upon the desires of students and faculty. Allows the student to choose topics of interests to him or her.

PUP 5934 Topics in Public Policy (VAR). An intensive examination of selected topics

PUP 6007 Seminar in Public Policy (VAR). Graduate seminar on special topic in public policy analysis. Topic to be announced in advance.

URP 4149 Planning and Human Ecology (AP) (3), environmental planning and design utilizing a human ecology perspective. Examines issues of open space planning, urban design, neighborhood planning, and citizen participation.

Psychology

Paul Foos, Associate Professor and Chairperson

Margarita Azmitia, Assistant Professor Lorraine Bahrick, Associate Professor Milton Blum, Professor Brian Cutler, Assistant Professor Marvin Dunn, Associate Professor Joan Erber, Associate Professor Luls Escovar, Associate Professor and

Associate Dean Gordon Finley, Professor Ronald Fisher, Associate Professor Arthur Flexser, Associate Professor Scott Freser, Assistant Professor Jacob Gewirtz, Professor Edward Girden, Distinguished

Professor Emeritus

Fernando Gonzalez-Relgosa,
Associate Professor
William Kurtines, Professor
Mary Levitt, Associate Professor
Gary Moran, Professor
Janat Parker, Associate Professor
James Rotton, Associate Professor

Bernard Saper, Professor

Degree: Bachelor of Arts

Lower Division Preparation
Required Course: Completion of
Introductory Psychology with a grade of
'C' or higher. This requirement can be
fulfilled by the completion of PSY 2020
at the University, or with a comparable
course from another accredited college
or university.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty somester hours, and must be otherwise acceptable into the program.

Upper Division Preparation
The Psychology major requires 35 hours
of upper division psychology
coursework, including STA 3122 All
courses must be taken for a lotter grade

The program has the following three major psychology components and a fourth, general, component for graduation

I Specific Required Courses in the Following Sequence (11 semester hours)

A Statistics (offered by the Department of Statistics) STA 3122 Introduction to Statistics

Statistics 3
Note STA 3123 and COP 3210 are recommended for students planning to enter graduate school

B: PSY 3212 Research Methods in Psychology Prerequisites: STA 3122

C. Advanced laboratory or field experience Prerequisites: STA 3122 and PSY 3212

Note: Because the three courses in this component of the program must be taken in sequence, the first course (STA 3122) should be taken no later than the first semester of the junior year.

II. Distribution Requirement Courses: (15 semester hours)

To fulfill this required component, each student must take one course or a laboratory/field experience from each of the five areas (A-E) listed below.

Lecture Courses	Laboratory/Field Experiences
Area A: Experimental EXP 3523 EXP 4204 EXP 4605 PSB 4003	EXP 4214C EXP 4404C EXP 5005C
Area B: Social SOP 3004 SOP 4522 SOP 4525 SOP 4842	SOP 4215C SOP 4714C
Area C: Applied CYP 3003 INP 3002 SOP 4712 SOP 4645	CYP 4953 INP 4055C SOP 4649
Area D: Personality/Al CLP 3003 CLP 4144 EXP 3304 PPE 3003	onormal PPE 4325C
Area E: Developmenta DEP 3001	DEP 4704C

DEP 3001 DEP 3402

DEP 4164 DEP 4464

III. Required Psychology Course Electives (9 semester hours):

requirement for electives.

Any psychology course taken for a letter grade can be used to fulfill the

Note: In some cases a student may fulfill a distribution area requirement with a laboratory course and may not therefore take a lecture course in that area In such a case, the student must take four (12 hours) elective courses so that the total number of upper division hours for the psychology major reaches the required number of 35 credit hours.

PSY 4693C is especially recommended for students planning to take the psychology specialty part of the Graduate Record Examination.

IV. Electives to Complete the requirement of 60 credit hours: (25 semester hours)

A student may, but is not required to. take additional upper division psychology courses beyond the required 35 hours towards the fulfillment of the 60 upper division credit hours needed for graduation. Students may, with the permission of the instructor, take PSY 4900 and PSY 4916, which are given Pass/Fail grades. These courses can therefore not count in the category of Required Psychology Electives, but they can be used as additional credit towards graduation. There is a College requirement that at least nine hours of elective credit (not including STA 3122) must be outside of Psychology.

Remarks: (1) The student is strongly urged to contact the Psychology Department for advisement in curriculum planning; (2) Limited funds are available through the Psychology Department to students with demonstrated scholastic ability and financial need; (3) Psychology majors are allowed to transfer a maximum of ten upper division semester credit hours toward the psychology degree.

Bachelor's Degree with Honors Application must be made and departmental approval granted, to undertake an independent project which must be approved by and carried out under the supervision of a member of the Department. Upon completion of the study, a satisfactory oral defense of the work must be presented to a Department committee.

Note: The Bachelor's degree offered in this program is a liberal arts degree and not a professional degree. While it is possible to concentrate courses in one's area of interest, it is not possible at the present time to obtain a 'professional specialization' at the undergraduate level in psychology.

Minor In Psychology A Minor in Psychology requires 15 upper division semester hours of approved psychology credits. Students seeking the minor must meet with a psychology faculty member for advisement and should file with the Psychology Department a written notice of intention to minor in psychology. A grade of 'C' or higher (or 'Pass' if taken under the Pass/Fail option) is required in all courses counted toward the minor.

Master of Science in Psychology

The Masters of Science in Psychology program at the University is designed to train practitioners and researchers who can function in a variety of applied settings. The core curriculum and admission prerequisites are intended to provide students with a base of knowledge in psychology. A distinctive feature of the program is its emphasis on a close work-ing relationship between student and faculty. Under faculty supervision, students are encouraged to develop individually tailored programs of study that reflect both student interests and program strengths.

The curriculum consists of 36 semester hours of graduate study in which the exposures focus specifically on training the student to perform the skills mentioned above. Students are expected to select electives, project/thesis topics, and supervised field experiences that meet not only the degree requirements, but also their academic interest and particular professional objectives. Six of the 36 semester credit hours consist of Master's thesis credits.

Doctor of Philosophy in Psychology The doctorate program in psychology has a two-fold focus: (1) Life-span development (2) applied psychology. The program emphasizes normal development as well as cross-cultural and urban perspectives on the life span and legal and industrial/organizational applied psychology. The emphasis is on academic quality and the curriculum is designed to foster a commitment both to basic research and to application as an integral part of the individual student's specialty area development. The curriculum offers a broad background in life-span development and applied psychology while encouraging the development of an area of specialization early in graduate training.

Students are expected to master a series of core-course requirements designed to facilitate a thorough grounding in theory, methodology, and content both in basic and applied research. In addition, a number of seminars reflecting specialized foci are offered. Students are also required to pursue specific areas of interest through independent study with individual faculty members and through apprenticeship with a primary advisor for the purpose of acquiring direct research experience.

Graduate Admission Requirements: The following are in addition to the University's Graduate Admission Requirements:

1. A 3.0 or higher GPA during the last two years as an upper division student or a total score (quantitative plus verbal) of 1,000 or higher on the GRE for the Master's degree and 1100 or higher for the Ph.D. degree, or both. Foreign students whose native language is not English must take the Test of English as a Foreign Language (the TOEFL examination) and obtain a 500 score of higher.

2. The GRE and GPA stated above are only minimum requirements. All applications are reviewed by the Graduate Studies Admission Committee, which makes the final admissions decisions. Since admission to the program is competitive, the committee's requirements are normally higher than the minimum aforementioned standards.

Graduate Admissions Procedures: Applicants must submit the following to the Graduate Studies Admission Committee, Department of Psychology, Florida International University, Miami, Florida 33199:

 A photocopy of the admission application submitted to the Admissions Office.

A brief essay stating the reasons for the interest in the program and career goals.

 Three letters of recommendation, preferably from previous instructors and/or persons familiar with applicant's academic background.

Applicants to the program who are not psychology majors may be accepted conditionally until they meet the category requirements, listed below, early in their graduate career. A maximum of nine semester hours credit earned in the nondegree seeking student category exclusive of prerequisite undergraduate courses may be applied to graduate degree requirements. The undergraduate course requirements are designed to make certain that students accepted into the graduate program have a broad base of dependable psychological knowledge and acquaintance with the basic methodologies upon which the discipline is founded.

Category A. Satisfactory completion of one psychology laboratory or research methods course.

Category B. Satisfactory completion of introductory uppor division statistics

Course Descriptions

Definition of Prefixes CLP-Clinical Psychology; CYP-Community Psychology, DEP-Developmental Psychology, EAB-Experimental Analysis of Bohavior, EDP-Educational Psychology; EXP-Experimental Psychology; IMP-Industrial and Applied Psychology; LIN-Linguistics; PCO-Psychology for Counseling; PPE-Psychology of Personality; PSB-Psychobiology; PSY-Psychology; SOC-Sociology; SOP-Social Psychology; SPA-Speech Pathology and Audiology.

CLP 3003 Personal Adjustment (3). Study of personal adjustment in the social and occupational life of the individual. Emphasis on interpersonal aspects of effective behavior.

CLP 4144 Abnormal Psychology (3). Various forms of behavior pathology are examined in the light of traditional and current concepts of mental health and illness. Problems of diagnosis and treatment are discussed. The role of social mores is examined.

CLP 4374 Psychotherapy (3). Current approaches to the treatment and improvement of psychological disorders are critically surveyed. Emphasis is placed on the examination of the various techniques of psychotherapy and behavior therapy. Broader strategies of prevention and mental health promotion, like consultation, counseling, and programmed agency services, are also studied.

CLP 5166 Advanced Abnormal Psychology (3). Advanced study of the causes, psychopathology manifestations, and social and personal consequences of behavior disturbance. Emphasis is placed on the critical examination of current research on the biological, psychological, and social aspects of these disorders. Clinical approaches to diagnosis, course, and prognosis in the contemporary mental health context (including 'practicum' assignments if leasible) are covered.

CLP 5175 Personality Dynamics (3). A review of different approaches to the study of personality dynamics and of the related therapeutic modalities. Special consideration is given to psychoanalysis and neo-analytic psychology. Other therapeutic models which influence current psychological thought are also considered. Prerequisites: Successful completion of a course in theories of personality, or equivalent. Permission of instructor.

CLP 5185 Current Issues in Mental Health (3) A critical, intensive examination of selected, important issues in mental health. Emphasis is given to the empirical study of contemporary problems related to the making of mental patients; planning, programming, and administering mental health sorvices; political, ethical, and legal constraints on the operation of

mental health facilities; interdisciplinary cooperation among helping and human service professionals; and evaluation of preventive care and treatment services. Prerequisite: Abnormal Psychology or permission of the instructor.

CLP 6168 Psychopathology Across the Life-Span (3). Exploration of the causes of psychopathology from a life-span developmental orientation and implications for theories of personality. Prerequisites: CLP 5166 and permission of instructor.

CLP 6437 Behavioral Assessment In Childhood (3). Standardized tests and inventories for the behavior assessment of infants, children, and adolescents will be surveyed. Prerequisites: Proseminar courses and second year graduate standing.

CLP 6438 Psychological Assessment (3). Theory, research, and applications of psychological assessment in areas such as interviewing, intellectual and cognitive functioning, and personality testing. May be repeated for credit with different subject matter. Prerequisite: STA 3122 and permission of instructor.

CYP 3003 Introduction to Community Psychology (3). An introduction to the issues and scope of Community Psychology. Students will be exposed to the development of Community Psychology as a growing discipline. Particular emphasis will be placed on the role of the community psychologist as an agent of social change.

CYP 4953 Community Psychology Field Experiences I (5). Students will be organized into task-oriented teams or will work independently in the community, for the purpose of becoming familiar with various community institutions and developing an action plan for assisting institutions in implementing change Prerequisite PSY 3212 or STA 3123

CYP 5534 Groups as Agents of Change (3) Theory and practice in utilizing groups as agents of change or dovelopment in communities and organizations. Didactic presentation and structured exercises locus on relevant issues. Students design and implement problem-locused interventions, using class as client system.

CYP 5535 Psychology of Institutional and Social Change (3). A study of the theoretical basis of and strategies applied to the process of effecting social change in community institutions involved in the delivery of human services.

CYP 5954 Community Psychology Field Experiences II (5). Same orientation and description as Field Experience I. Students in this course will be able to pursue their work with community institutions in more depth. Prerequisite: Students enrolled in this course must have completed Community Psychology Field Experiences I.

CYP 6055 Psychological Theories and Research on Acculturation and Multiculturalism (3). A review of theories and research on acculturation and multiculturalism concepts with an emphasis on those models that have generated a substantial body of empirical research. Stress will be placed on the implications of these findings for community stability and disruption as well as the implications for the delivery of human services in multicultural settings.

CYP 6526 Psychological Methods of Program Evaluation (3). Development of skills for the psychological assessment monitoring and evaluation of human service programs with emphasis on the application of basic principles of behavioral science research in the field, exclusive of public school settings.

CYP 6536 Principles and Methods of Psychological Consultation (3). An analysis of the basic psychological approaches underlying consultation, with special emphasis on the practical application of the processes of learning, cognition, and interpersonal relations to techniques of consulting with various 'arget' agencies, individual clients, and other professionals in community settings. Prerequisite: Graduate standing at FIU or permission of instructor.

CYP 6766 The Psychology of Crosscultural Sensitization in a Multicultural Context (3). A series of weekly seminars to increase student sensitivity to working with clients from different cultural backgrounds. The objectives of the course are: (1) facilitating student awareness of cultural differences and their impact on social and human services delivery systems, (2) identifying the student's own personal cultural biases and values when interacting with culturally different persons, and (3) teaching students to develop culturally appropriate intervention skills.

CYP 6936 Current Isaues In Community Psychology (3). An intensive analysis of contemporary theoretical, practical, and professional aspects of the field of Community Psychology. Topics discussed may lead to the graduate project required of each student. Prerequisite: Admission to graduate study in psychology (other graduate students admitted by permission of instructor).

DEP 3000 Human Growth and Development: Introductory Developmental Psychology (3). An introductory study of the development of personality, intelligence, and motivation, from childhood to adulthood. Emphasis is on development of cognitive systems through social learning. The full life span of human growth and development will be considered.

DEP 3001 Psychology of Infency and Childhood (3). An introduction to human development focusing on infancy and childhood. Particular attention will be devoted to intellectual, personality, and social development. Consideration will be given to both theoretical and empirical perspectives.

DEP 3115 Development In Infancy: The Basis of Human Knowledge (3). Provides a comprehensive review of current methods, theories, and findings in cognitive and perceptual development in the first year of life. Special emphasis on the bases of knowledge; object and event perception, memory, and imitation. Prerequisites: PSY 2020 and one developmental course, any level recommended.

DEP 3303 Psychology of Adolescence (3). An examination of psychological, sociological and biological factors contributing to the changes from childhood to adolescence, and biological factors contributing to the changes from childhood to adolescence, and from adolescence to young adulthood.

DEP 3402 Psychology of Adulthood (3). The transition from youth to middle age is studied. Focus is on changing roles in family, work, and societal settings, as these factors influence personality and other aspects of psychological function.

DEP 4032 Life-Span Cognitive Development (3). Course covers all facets of cognitive growth, change, and decline from infancy through adulthood, and old age. Prerequisite: Any one of: DEP 3000, DEP 3001, DEP 4164, or DEP 4464.

DEP 4044 Psychology of Moral Development (3). A review of psychological theories and research concerning the development of moral attitudes and behavior.

DEP 4164 Children's Learning (3). Learning in infancy and childhood, with particular emphasis on simple conditioning, discrimination shifts, mediation, transposition, observational, and concept learning. Prerequisite: Students enrolling in this course should have completed successfully at least one prior course in developmental psychology.

DEP 4182 Socio-emotional Development (3). A survey of facts and theories of human social emotional development and social learning in the early years of life. Prerequisite: DEP 3000 or DEP 3001.

DEP 4213 Childhood Psychopathology (3). Various forms of abnormal behavior in infancy, childhood, and adolescence are examined within the context of traditional and contemporary psychological theory. Problems of differential diagnosis and forms of remediation are discussed.

DEP 4464 Psychology of Aging (3). An examination of the factors that contribute to the psychological profile characterizing old age. Biological and sociological components are considered, and their impact on perceptual, cognitive, and personality processes is analyzed.

DEP 4704C Developmental Paychology: Lecture (2) and Laboratory (3) (5).
Laboratory/observation exercises illustrative of the concepts and research techniques used in developmental psychology. Particular emphasis is given to cognitive and social-cognitive development. This course is for seniors who have completed PSY 3212, one developmental psychology course, and

STA 3122

DEP 5056 Issues In Life-Spen Developmental Psychology: Infancy through Old Age (3). A survey in depth of theories, issues, methods, and data in life-span developmental psychology through the entire age range. Prerequisites: DEP 3001 or DEP 4464, or their equivalents, are recommended.

DEP 5058 Blological Besis of Behavlor Development (3). Introduction to theory and research underlying behavioral development. Covers such pre-and post-natal determinants as evolution, genetics, neuroendocrines, as well as social development, behavioral ecology, and sociobiology. Prerequisite: Graduate standing or permission of instructor. Corequisite: Proseminar courses.

DEP 5068 Applied Life Span Developmental Psychology (3). This course is designed to acquaint the student with various applications in life-span developmental psychology. An overview of general issues and areas of application is offered, and specific applications are considered. Prerequisite: Graduate standing or permission of instructor.

DEP 5099 Proseminar in Infancy, Childhood, and adolescence (3). Provides a comprehensive review of issues in perceptual, cognitive, social, emotional, and personality development from infancy through adolescence. Prerequisite: Graduate standing or permission of instructor. Corequisite: Proseminars.

DEP 5118 Current Issues In Cognitive and Perceptual Development In Infancy (3). Provides an in-depth analysis of current issues, methods, research and theory of cognitive and perceptual development during the first year of life. Special emphasis on object and event perception, memory, and imitation. Prerequisites: Two courses in developmental psychology - any level recommended.

DEP 5405 Proseminar in Psychology of Adulthood and Aging (3). A comprehensive review of topics in adulthood and aging including: biological changes, social processes, work, family, cognition, memory, personality, and psychopathology. Prerequisite: Graduate standing or permission of instructor.

DEP 5608 Theoretical Perspectives in Developmental Psychology (3) The focus of this course is on the major paradigms, models, and theories that have been influential in developmental psychology, both historically and contemporaneously. Meta-theoretical issues, paradigmatic influences, and specific theories are considered Prerequisite: Graduate standing or permission of instructor

DEP 5725 Research Seminar in Psychosocial Development (1) This course is designed to devolop resoarch skills and competencies in the area of psychosocial development. The omphasis of the course is on involvement in original research. Prerequisite: Permission of instructor. Corequisite Senior undergraduate or graduate standing

DEP 5796 Methods of Developmental Research (3). Survey of issues and methods at all stages of life-span developmental research including theory, methods, design, and data reduction Preroquisite: Graduate standing or permission of instructor Corequisite: proseminars.

DEP 6069 SemInar In Life-Span Cognitive Developmental (3). This graduate seminar will examine, through intensive reading and seminar discussion, the major theories, issues and empirical research on cognitive growth, change and decline from intancy through old age. Prerequisites: Two courses in Developmental Psychology (any level).

DEP 6096 Seminar in Psychology of Life-Span Social Development (3). This course includes a consideration of general issues and discussion of the application of life-span models to selected topics development. Prerequisite: Graduate standing or permission of instructor.

DEP 6117 Psychology of Caregiving (3). A survey of theory and research on the effects of caregiving/parenting behaviors, and conditions on behavior outcomes in offsprings, both for infrahumans and humans. Prerequisite: Graduate standing or permission of instructor.

DEP 6145 Psychology of Culture and Childhood (3). Extensive cross-cultural readings will serve as the focus for seminar discussion of cultural influences on children's biological, motor, perceptual, cognitive, social, and personality development. Prerequisite: Graduate standing or permission of instructor.

DEP 6186 Social Development and Learning (3). Theories and facts of socio-emotional development, learning, and the acquisition and maintenance of social relationships in early life are examined critically. Prerequisites: DEP 3000 or DEP 3001 or equivalent.

DEP 6438 Gerontological Assessment (3) This seminar for advanced graduate students involves an intensive examination of the theory, validity, and reliability of the major assessment instruments in gerontology Prerequisite: Graduate standing

DEP 6465 Psychology of Culture and Aging (3). An intensive examination of cultural influences on social and psychological aging processes including minority aging and involving seminar discussion and independent projects. Prerequisito: Graduate standing.

DEP 6466 Cognitive Processes in Aging (3). An intensive analysis of the background and rocent developments in the area of age changes and age differences in intellectual functioning and learning memory processes
Prerequisite: DEP 5405.

DEP 6477 Psychology of Social Processes in Aging (3). An intensive analysis of the background and recent developments in theoretical models of social development, personality processes, and social processes in the older adult. Prerequisite: DEP 5405.

DEP 6645 Cognitive and Language (3). Course covers the acquisition of cognitive processes and language, and their interdependence. Theory and research focusing on innate vs. learned aspects are discussed. Prerequisite: Graduate standing or permission of instructor.

DEP 6936 Current Literature in the Psychology of Infancy, Childhood, and Adoleacence (3). This seminar will present and evaluate current research articles in the major journals in infant, child, and adolescence psychology. Prerequisite: Second year graduate standing.

DEP 6937 Current Literature in the Psychology of Adulthood and Aging (3). This seminar will present and evaluate current research articles in the major journals in the psychology of adulthood and aging. Prerequisite: Second year graduate standing.

DEP 6945 Life-span Developmental Psychology Practicum (3). This is an individually tailored program where students will work in an agency on a specific problem or project, culminating in a final written report. Prerequisite: Second year graduate standing.

EAB 4794 Principles and Theories of Behavior Modification (3) Studies different approaches to the modification of problem behavior, through the application of learning principles and theories.

EAB 5655 Advanced Methods of Behavlor Change (3). An intensive study of selected methods of modifying human behavior, emphasizing the applications of the principles of respondent and operant conditioning, as well as those derived from modern social learning theories. Practice and role playing opportunities are provided in behavior therapy, relaxation therapy, behavior modification, biofeedback or similar behavioral approaches Prerequisites: EAB 4794, CLP 4374, CYP 4144, enrollment in an authorized program; equivalent background; or permission of instructor

EDP 6935 Special Topics in Educational Psychology (VAR) An intensive analysis of a particular topic in educational psychology. Students must

have topics approved by the instructor prior to registration. Open only to advanced and graduate students in the College of Education.

EXP 3304 Motivation and Emotion (3). Introduces several perspectives from learning theory, perception, and personality theory to explore ways in which people move through their physical and social environment.

EXP 3523 Memory and Memory Improvement (3). This introduction to human memory considers the topics from a number of points of view. The following issues are addressed: the nature of memory and its phenomena; the capabilities and limitations of an ordinary and an extraordinary memory; and the skills that can aid an ordinary memory, memory.

EXP 4204 Sensation and Perception (3). Basic concepts in sensation and perception are explored, with an emphasis on models of peripheral and central neural processing. Topics such as receptor function, brightness and color vision, movement and object perception, perceptual memory and pattern recognition are considered. Psychophysical techniques, such as subjective magnitude estimation and signal detection theory, are covered.

EXP 4214C Human Perception: Lecture (2) and Laboratory (3). Lectures concern the methods researchers use to learn about the phenomena of sensation and perception. Laboratory exercises allow students to apply these methods and to experience the perceptual phenomena under investigation. Prerequisites: PSY 3212 and STA 3122.

EXP 4404C Human Learning and Remembering: Lecture (2) and Laboratory (3) (5). Lectures on the research and theoretical contributions to the understanding of human learning and remembering; and laboratory exercises illustrative of the concepts and techniques used in conducting experimental studies of human learning and remembering. Prerequisites: PSY 3122 and STA 3122.

EXP 4605 Cognitive Processes (3). Investigation of the mental processing underlying experiences and behavior. Topics include: games, puzzles, and problems; intuitive and creative thought, conceptualization, reasoning and clinical diagnosis; choices and decisions; conceptions of time and space; and thought in abnormal or altered states of consciousness.

EXP 4934 Current Experimental Theories (3). The stress in this course is on current specific theories determining the nature and direction of the research and interest in several important areas, such as psychophysics, learning and remembering, developmental patterns and motivation, personality, etc. Topics to be covered will be announced at the beginning of the academic year. May be taken twice for credit toward the major.

EXP 5005C Advanced Experimental Psychology: Lecture and Laboratory (5).Lecture and laboratory course investigating experimental research in the fundamental processes of human behavior. Includes perceptual, cognitive, and linguistic processes. Prerequisites: PSY 3212 and STA 3122.

EXP 5099 Proseminar in Experimental Psychology (3). Provides a comprehensive review of current research and theory in areas such as learning, memory, cognition, sensation, and perception. Prerequisite: Graduate standing or permission of instructor.

EXP 5406 Theories of Learning (3). The major theoretical systems of learning are covered, with the intent of determining how well each accounts for the phenomena of learning. Emphasis is placed on exploring the controversial issues raised by extant theories, and the experimental resolution of these theoretical controversies. The impact of theory on current thinking about learning is considered.

INP 3002 Introductory Industrial/ Organizational Psychology (3). Introduction to the study of behavior in the work environment. Illustrative topics included formal and informal organization, work motivation, satisfaction and performance, leadership, job analysis, selection and performance evaluation, training, and development.

INP 4055C Industrial/Organizational Psychology Lecture (2) and Laboratory (3) (5). Students gain experience with the use of psychometric instruments in the areas of job analysis, personnel selection, performance appraisal, job satisfaction, criteria analysis, and management training and development. Prerequisites: PSY 3212; STA 3123; and INP 3002 or INP 4203, or Personnel Management.

INP 4203 Personnel Psychology (3). Techniques and procedures applicable to the selection, placement, utilization, and evaluation of personnel in organizations are considered. The emphasis will be on empirical procedures, rather than the management function in the personnel area. Topics such as quantitative methods and models for selection, criteria analysis, performance appraisal, management training, and job satisfaction are discussed. Prior course in statistics strongly recommended.

INP 6940 Strategies and Methods of Applied Psychological Research (3). A practicum course in the psychological research strategies and the application of computers in the analyses of psychological data.

LIN 4710 Language Acquisition (3). An examination of the way children acquire language, based on experimental findings from contemporary linguistics, psycholinguistics, and behavioral theory.

LIN 5701 Psychology of Language (3). An overview of the psychology of language and the psychological 'reality' of linguistic structure. Behavioristic vs. cognitive views of psycholinguistics are examined. Consideration is given to the biological bases of language and thought, language acquisition, and language pathology.

PPE 3003 Theories of Personality (3). An examination of various theories of personality. Consideration is given to traditional and contemporary approaches to personality development.

PPE 3502 Psychology of Consciousness (3). Normal and altered states of human consciousness are analyzed from the perceptual and neuropsychological viewpoint. Broad topic areas include physiologically determined levels of arousal, from deep sleep to intense excitement; selective attention; perceptual plasticity; illusions; sensory deprivation; bioleedback; psychosomatic disease; hypnotism and suggestibility; as well as a critical treatment of the phenomena of parapsychology.

PPE 3670 Psychology of Myth (3). Mythology is studied from various psychological viewpoints. The process of Myth. Creation and the role of ritual in psychological enhancement are emphasized. Course locuses on classical mythology.

PPE 4105 HumanIstic Psychology (3). Studies the methodology, research, and indings of the humanistic orientation in psychology. Topics such as counseling, encounter groups, higher consciousness, bioleedback, intentional communities, education, mysticism, and religion are examined from the

humanistic viewpoint. Prerequisite: Prior completion of a course in Theories of Personality is recommended.

PPE 4325C Differential Psychology: Lecture (2) and Laboratory (3) (5). Lectures and laboratory field experiences in the principles and methods underlying the administration, construction, and evaluation of psychological tests. Practice in the administration and interpretation of selected psychological tests. Prerequisites: STA 3122 or an equivalent introductory course in statistics, and PSY 3212.

PPE 4514 Paychology of Dreams and Dreaming (3). An in-depth examination of the most important psychological theories of dream function and of the use of dreams in different therapeutic approaches. The current research on the physiology and psychology of sleep is also evaluated. Prerequisite: Theories of Personality or its equivalent.

PPE 4604 Psychological Testing (3). An introduction to the rationale underlying the use of psychological tests. Topics include basic test terminology, test administration, interpreting standard scores, reliability, validity, tests of intelligence, interest inventories, personality tests, the ethics of testing, and the fairness of tests for different segments of the population.

PPE 4930 Topics in Personality (VAR). Special topics will be announced in advance

PSB 4003 Introductory Bio-Psychology (3). A study of the more important psychobiologic correlates of behavior in basic psychological phenomena.

PSY 2020 Introductory Psychology (3). Psychological principlos underlying the basic processes of sensation, perception, cognition, learning, memory, life-span developmental, social bohavior, personality, abnormal behavior, and psychotherapy.

PSY 3212 Research Methods in Psychology (3). Basic mothods in contemporery psychology. Emphasis on the role of methodology and experimentation in subfields of psychology. Students evaluate different designs and conduct original research projects. Prerequisite: STA 3122.

PSY 3930 Psychology of Humor (3). A study of the development of sense of humor in comedians and audiences, its expression in the production and appreciation of comedy, etc.; its psychophysiologic-social correlates; its effect in maintaining well-being and preventing illness; and its role in human relations.

PSY 4693 Overview of Psychology (3). A consideration of the historical onigins and developments of modern psychology as a viable discipline, in light of the major influences upon its growth. Prerequisite: 12 semester hours in upper division psychology courses.

PSY 4900 independent Readings in Psychology (VAR). Limited to qualified students who have permission from a faculty member and who present a plan of study including area and objectives. Students enrolled in this course are expected to have regularly scheduled meetings with their faculty advisor, and to submit a written report of their study.

PSY 4914 Honors Research Project (VAR). Limited to qualified seniors seeking honors in psychology. Students must submit a research plan and have a research advisor's approval of the research project prior to enrollment in the course. A written report of the research in the A.P.A. publication style must be submitted for evaluation before credit will be awarded.

PSY 4916 Independent Research in Psychology (VAR). Limited to qualified students who have permission from a faculty member and who present a written proposal for research. Students enrolled in this course are expected to have regularly scheduled meetings with their faculty advisor, and to submit a written report of their research.

PSY 4930 Special Topics in Psychology (VAR), Special topics will be announced in advance.

PSY 4931 Senior Seminar in Psychology (1). An advanced seminar for seniors. Analysis of major contemporary trends in psychological theory and research.

PSY 4941 Independent Field Experiences in Psychology (VAR). Limited to qualified students who have permission from a faculty member and who present a plan of study including area and objectives. Students enrolled in this course are expected to have regularly scheduled meetings with their faculty advisor, and to submit a written roport of their experiences.

PSY 5206C Design of Experiments in Psychotogical Research (3). Roviows the Analysis of Variance, and introducos the student to randomized and blocking designs, factorial designs, Iractional factorial, main effects and other plans as they are used in psychological research. Main emphasis is on the rationale behind the several designs, and the techniques for applying these to psychological experiments. Prerequisites: STA 3122 and 3123, or their equivalents.

PSY 5246C Multivariate Analysis in Applied Psychological Research (3). Covers basic techniques of multivariate analysis, emphasizing the rationale and applications to psychological research. Includes multiple regression, Hotellings T#, MANOVA, principle component analysis, and factor analysis. Prerequisite: STA 3123 or equivalent; linear algebra recommended.

PSY 5908 Directed Individual Study (VAR). Under the supervision of an instructor in the graduate degree program, the graduate student delves individually into a topic of mutual interest which requires intensive and profound analysis and which is not available in a formal offening. May be repeated once. Prerequisite: Permission of instructor.

PSY 5917 Psychology Research Proseminar (3). Specialized research and presentation to faculty members in his or her major research area. Seminar style. This course is intended as a core course for the masters program in psychology. Prerequisite: Full graduate admission.

PSY 5918 Supervised Research (VAR). Research apprenticeship under the direction of a research professor or a thesis advisor. Prerequisite: Full graduate admission.

PSY 5939 Special Topics In Psychology (VAR). Special topics will be announced in advance.

PSY 6328 Principles of Psychological Assessment (3). This course provides advanced instruction in the principles and methods underlying the administration, construction and evaluation of psychological tests and measures. Prorequisite: Graduate standing

PSY 6956 Psychology Field Experience (VAR). Placement of students in applied settings for the purpose of developing community-based experience in the application of theoretical and methodological approaches. Prerequisito Graduato standing

PSY 6971 Master's Thesis In Psychology (3-6). Supervised research on an onginal research project submitted in partial fulfillment of Master's degree requirement.

PSY 7940 Supervised Teaching In Psychology (1). Supervised teaching under the guidance of laculty advisor. May be repeated only three times. Prequisite: Doctoral graduate study.

PSY 7980 Dissertation Research in Paychology (3-12). Supervised research on an original research project submitted in partial fulfillment of doctoral degree requirements. Prerequisite: Admission to candidacy.

SOP 3004 Introductory Social Psychology (3). Introduction to the study of the relationship of the individual to social systems, including topics such as social behavior, attitude development and change, social conflict, group processes, mass phenomena, and communication.

SOP 3015 Social and Personality Development (3). This course provides a survey of social and personality development throughout the life cycle. Emphasis will be placed on the interaction between psychological and environmental variables in life-span development changes.

SOP 3742 Psychology of Women (3). An examination of women from various perspectives, such as biological, anthropological, mythological, religious, historical, legal, sociological, and psycho-analytical points of view. Discussions of ways in which these various perspectives influence the psychological development of contemporary women.

SOP 3772 Psychology of Sexual Behavlor (3). An examination of the nature, development, decline, and disorders of sexual behaviors, primarily from the perspectives of normal adjustment and interpersonal relations. Discussion also addresses love, intimacy, and similar emotionally charged socio-psychological topics. Modern and popular treatment approaches -including the 'new sex therapies' are critically evaluated

SOP 3932 Psychology of Drugs and Drug Abuse (3). This course will cover some basic information about the nature and effects of drugs abused, the social and personal dynamics involved in the phenomena of drug abuse and the various rehabilitation programs currently being employed to combat drug abuse.

SOP 4050 Social Psychology In Latin America (3). Upper division seminar on Social Psychology in Latin America. The course will provide the student with the opportunity to survey the literature and research in social psychology from different countries in Latin America and to compare that material with on-going research and literature in the United States. Prerequisites: SOP 3004 and reading knowledge of Spanish.

SOP 4215C Experimental Social Psychology: Lecture (2) and Laboratory (3) (5). The primary purpose of this course is to have students conduct actual social psychological experiments. Lecture material will be secondary to (and in the interest of) allowing students to execute representative experiments in areas such as attitude measurement and change, group structure, and communication, etc. Prerequisites: PSY 3212 and STA 3122.

SOP 4522 Social Motivation (3). Focuses upon those sources of human motivation that are a consequence of man's social-interpersonal environment and his striving to obtain valued goals. Topics discussed include test-taking anxiety, alienation and affiliation motivation, internal vs. external orientation, achievement motivation, etc. The measurement of social motives and their roots and consequences for behavior are discussed.

SOP 4525 Small Group Behavlor (3). Introduction to the study of the structure and function of groups, emphasizing the behavior of individuals as affected by the group. The course focuses on experimental evidence concerning such topics as social facilitation, group decision making, phases in group development, physical factors in group behavior, etc.; rather than upon student experience in sensitivity or encounter training.

SOP 4645 Consumer Psychology (3). This course addresses the psychological components contributing to satisfaction and dissatisfaction in buying and selling transactions. The consequences of such transactions, as they affect the environment in which we live as well as society in general, are examined. The interlace between business, labor, government, and the consumer as all four groups are involved in consumer affairs is analyzed objectively.

SOP 4649 ExperImental Consumer Paychology: Lecture (2) and Laboratory (3)-(5). Using the interactional workshop and objective observational methods, students will be required to conduct original research projects related to solving consumer affairs problems. Laboratory requirements include both on-and off-campus work. The former emphasizes techniques and evaluation. The latter is

necessary for the gathering of data. Prerequisites: PSY 3212 and STA 3122.

SOP 4712 Environmental Psychology (3). An introduction to the manenvironment interaction, including psychological, sociological and physical aspects.

SOP 4714 Environment and Behavior: Lecture (2) and Laboratory (3)-(5). Students gain experience with laboratory and field techniques used in the study of the reciprocal relationship between the physical environment and human behavior. Prerequisite: PSY 3213 or permission of instructor.

SOP 4834 Psychology of Health and Illness (3). Course provides an overview of the field of behavioral medicine, the interface of psychology with health and health care. Psychological factors in illness, health, and health delivery systems will be covered. Prevention and early intervention will be stressed.

SOP 4842 Legal Psychology (3). Particular emphasis will be given to interpersonal courtroom processes. Topics considered include scientific jury selection, proximics, persuasive argumentation, witness demeanor, eyewitness testimony, and similar influences upon juror decision making.

SOP 5058 Proseminar in Social Psychology (3). An in-depth examination of the role of social psychology in the social sciences and the major substantive problems as they relate to contemporary societal issues. Minimum Prerequisite: An introductory course in social psychology or its equivalent.

SOP 5316 Theories and Methods of Cross-Cultural Research (3). An intensive analysis of contemporary theories and methods of cross-cultural research in psychology including topics such as: culture as a research treatment, differential incidence of personality traits, the use of ethnographies, 'etic' vs. 'emic' distinction. Prerequisite: Graduate standing or permission of instructor.

SOP 5616 Social Psychology of Organizations (3). The application of concepts and theories from social psychology and sociology to the organizational setting. Emphasis would be on role theory, value formation and the operation of norms, including their development and enforcement. Formal and informal organization structure, power and authority concepts, and leadership theories will be covered. Communication processes and networks

and their effects on task accomplishment and satisfaction will be included.

SOP 6098 Proseminar in Legal Psychology (3). The application of psychological research methods and psychological knowledge to contemporary issues in criminal and civil litigations. Prerequisite: Graduate Standing.

Religious Studies

Robert Hann, Associate Professor and Chairperson, Department of Philosophy and Religion

Bongkli Chung, Associate Professor James Huchingson, Associate Professor

Degree: Bachelor of Arts

Religious Studies is a program in the Department of Philosophy and Religion.

Lower Division Preparation

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program. Recommended Courses: Religion, Philosophy. History

Upper Division Program: (60 semester hours)

Required Areas Religion and Culture 6 Ecumenical and Historical Studies 3 **Biblical Studies** 6 Religious Studies Seminar 3 Other Religious Studies Courses or Optional Tracks 15 Courses in one other discipline 12 Electives 15

Remarks: A complete description of the Religious Studies Program is contained in a brochure available at the Department of Philosophy and Religion. Students should refer to the brochure for specific requirements of the major program. Students select their required courses in religious studies with the approval of a faculty member of the Department.

Students are also encouraged to consider a dual-major i.e., simultaneously to meet the requirements of two academic majors. In these cases, the twelve semester hour credits required in one other academic discipline (as part of the Religious Studies Major) are met by courses taken towards the second major.

The Dopartment ofters many of its courses at the North Mrami Campus and participates in the Humanities Major It also serves the community and professional groups by oftering courses oft campus. For further information

concerning these courses consult the department.

Minor in Religious Studies

A student majoring in another academic discipline can earn an academic minor in religious studies by taking a pattern of at least four REL courses (12 semester hours) approved in advance by the Chairperson of the Department. Students are normally expected to take REL 3300 as one of these courses. A student may propose still other patterns of four religious studies courses for a minor, provided the selection is based upon an acceptable rationale.

Course Descriptions

Definition of PrefixesGRE-Ancient Greek; REL-Religion; PHI-Philosophy.

GRE 3050 Introduction to Ancient Greek (5). This course introduces the Greek language of Plato, the New Testament, and other works of the ancient period. Its goal is to enhance the understanding of translated texts and to prepare for more advanced study of Greek. A portion of the Gospel of John will be studied in class.

PHI 3700 Philosophy of Religion (3). This course investigates whether or not religious beliefs can be rationally justified. Such topics as the nature of God, the problem of evil, religious experience, and the relationship of faith to reason will be explored. This course will involve a study of the phenomena of religion, as a means of identifying and evaluating religion's essential and universal element. Consideration will also be given to the relations between the enterprises of philosophy and religion. The result of these investigations will then be applied to specific topics examined by both disciplines.

PHI 3762 Eastern Philosophical and Religious Thought (3). This introductory course examines the development of objects and

introductory course examines the development of philosophical and religious thought in the East, from ancient to modern times. Hinduism, Buddhism, Confucianism, Taoism, and other major viewpoints will be considered, in themsolves and in companson with Western forms of thought.

PHH 3840 Indian Philosophy (3). Metaphysical, epistemological and ethical theones within such major Indian philosophical systems as philosophical Buddhism, Jainism, Samkhya dualism, and Vedanta transcendentalism are examined.

PHP 3840 Chinese and Japanese Philosophy (3). Metaphysical and ethical theories of the three main philosophical systems of China, namely, Classical and neo-Confucianism, Taoism, and Chinese Buddhism are examined. For Japanese philosophy, Shintoism is included.

REL 3300 Religions of the World (3). Introduction to the major faiths of mankind. Included in the discussion will be Hinduism, Buddhism, Taoism, Judaism, and Christianity. This course will involve a comparison of common elements in these major religions while respecting their distinctive features.

REL 2936 Special Topics (3). In-depth study of topics of special interest in religion.

REL 3000 The Scope and Forms of Religion (3). An introduction to the many varieties of religious conduct, belief, and practice. Includes a survey of the major world religions, and discussions of the forms of religious experience and contemporary issues.

REL 3100 Introduction to Religion and Culture (3). This course explores both the ways religion uses culture to express its basic concerns and the ways that culture and lifestyle reflect religious perspectives. Attention will be given to traditional and popular expressions of American culture.

REL 3130 Religion in America (3) Thematic and historical survey of mainline religious groups and major spiritual trends in America Includes Puritanism, revivalism, social gospel, and Southern civil and Black religions

REL 3131 American Sects and Cults (3). Examines several recent religious movements in American life, such as the Unification Church, the International Society for Krishna Consciousness, UFO cults, and others

REL 3160 Science and Religion (3). The methods, assumptions, goals of religion will be compared with those of the natural and human sciences. Specific issues, such as evolution, sociobiology, and the now astronomy will be considered to illustrate similarities and differences between the two approaches

REL 3170 Religion and Ethics (3) This course will examine the nature of ethics in its relationship to faith orientation. After considering the various religious foundations of ethics in the thought of influential thinkers, attention will be given to the application of these.

perspectives to pressing ethical problems in contemporary society.

REL 3210 Introduction to the Old Testament (3). This course introduces the literature and thought of the Old Testament, especially as these were shaped in interaction with political, social, and historical currents of the times.

REL 3240 Introduction to the New Testament (3). This course introduces the thought and literature of the New Testament in its contemporary setting. Attention is given to Jesus and Paul and to later developments in first-century Christianity.

REL 3270 Biblical Theology (3). Explores the ideas of God, man, redemption, ethics, and the after-life, tracing each through its development from earliest Hebrew thought to the rise of post-biblical Judaism and Christianity.

REL 3300 Religions of Classical Mythology (3). Examines the beliefs and practices of ancient Egyptian, Semitic, Greek, and Germanic religions, their influences on later civilization and religious thought, and the possible continuing insights offered by each.

REL 3393 Religious and Magical Rituals (3). Comparative study of the manipulation of supernatural power through ritual in Eastern, Western, and Primitive traditions. Interdisciplinary theories of ritual considered.

REL 3492 Man and Nature (3). This course will explore resources from philosophy and religion that could contribute to a solution of the current environmental crisis. Ethical issues of the environment will especially be examined in the light of these resources.

REL 3505 Introduction to Christianity
(3) Introduces the basic beliefs and practices of Christianity in their historical and modern forms, including both common and distinctive elements of Catholicism, Protestantism, and Eastern Orthodoxy.

REL 3510 Early Chriatlanity (3). This course will survey the First development of Christian thought and practice from its beginnings as a primitive church to its establishment as a major faith in the Middle Ages. It will then consider the relevance of this early experience for modern movements of this laith.

REL 3520 Medleval Christianity (3). Surveys Christianity during the middle ages, including its development, medieval theology and religious practices, and its on-going influence in Christianity.

REL 3532 Reformation (3). The lives and thoughts of the leaders of the Protestant Reformation will be the focus of this course. Significant attention will be given to the personal experiences and theological perspectives which directed the actions of such persons as Luther, Calvin, and Zwingli, as well as the movements they founded.

REL 3564 Modern Catholicism (3). Surveys Catholicism from the Vatican Council to the present, including developments in liturgy, theology, and the relationship of the Church to the world.

REL 3600 Judalsm (3). This course is an introduction to this major world religion. Following a survey of the history of Judaism, major themes in Jewish religious thought will be highlighted, especially as they relate to modern movements of this faith.

REL 4156 Personal Religion (3). Reviews religious lives of men and women, famous and ordinary, from mystics to the irreligious. Theories introduced to elucidate variety and dynamics of religion at the personal level.

REL 4173 Technology and Human Values (3). This course will explore the sources and impact of modern technology from philosophical and religious perspectives. Topics to be discussed include the effects of technology upon the understanding of human nature; and the relationship among technology, the natural environment, and hopes for a livable human future.

REL 4205 Current Methods in Biblical Studies (3). This course introduces the Bible and the methods and tools of biblical study, including translations, word studies, historical studies, and the use of appropriate secondary resources. Prerequisite: REL 3210, REL 3240 or permission of instructor.

REL 4224 The Prophets and Israel (3). Examines the setting of the prophets in the history of Israel, their contributions to biblical religion, and their use in later religious and renewal movements.

REL 4251 Jesus and Paul (3). Examines the historical settings, teachings, significance, and later interpretations of Christianity's founder and its foremost interpreter.

REL 4340 Survey of Buddhism (3). The course will explore the central themes of the main schools of Buddhism developed in India, China, Japan, and Korea. The themes will be examined from religious, moral, and philosophical points of view.

REL 4345 Zen Buddhlsm (3). This course explores Zen (ch'an) Buddhism in its historical, theoretical, and practical dimensions with a specific aim of examining the theme that the Buddha mind can be actualized by awakening to one's own Buddha-nature.

REL 4420 Contemporary Religious Thought (3). A survey of major figures in contemporary theology for the purpose of understanding their thought and its application to current issues in religion and society.

REL 4441 Religion and the Contemporary World (3). An examination of reflection by religious thinkers and others who employ religious perspectives, concerning select conceptual issues of critical importance in the contemporary world.

REL 4481 Contemporary Latin American Religious Thought (3). The major trends of religious thought in Latin America and their impact on the society of the area will be investigated. Special reference will be made to Post-Vatican II theology and to very recent theologies of liberation.

REL 4910 Independent Research (1-6). Topics will be selected to meet the academic needs of the individual student. Prerequisite: Permission of instructor.

REL 4931 Religious Studies Seminar (3). This seminar is designed for majors and other qualified students approved by the Department. The specific topic will be selected and announced in advance. The number of participants will be limited.

REL 4936 Special Topics (3). In-depth study of topics of special interest in religion.

REL 5030 Methods In the Study of Religion (3). This course examines a number of the most important methods used in the academic study of religion, together with representative examples of the use of these methods Prerequisite: Bachelor's degree in Religious Studies or permission of instructor.

REL 5911 Independent Research (1-5). Topics are selected to meet the academic needs of the individual student. Prerequisite: Permission of Instructor. REL 5937 Special Topics (3). Topics will be selected to meet the academic needs of groups of students.

Sociology/ Anthropology

Lisandro Perez, Associate Professor and Chairperson Jerry Brown, Associate Professor Janet Chernela, Assistant Professor Stephen Fjellman, Associate Professor Hugh Gladwin, Assistant Professor Guillermo Grenier, Assistant Professor

Antonio Jorge, Professor

A. Douglas Kincald, Assistant
Professor

Barry Levine, Professor Shearon Lowery, Associate Professor Anthony P. Maingot, Professor James Mau, Professor and Dean Betty Morrow, Associate Professor William Osborne, Associate Professor Alejandro Portes, Patricia and Phillip Frost Endowed Professor

Alex Stepick, Associate Professor
William T. Vickers, Associate Professor

Degree: Bachelor of Arts

Lower Division Preparation
To be admitted to the upper division, students must meet the University's and College's admission requirements. Coursework in pre-Ants and Sciences, or pre-Anthropology or Sociology is recommended. Students without an AA degree must have the background to handle advanced academic work. To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Required Courses: Introduction to Cultural Anthropology, or Introduction to Physical Anthropology, or Introduction to Sociology. If the student does not have on these courses, it will be required as part of the upper division program.

Recommended Courses: Other anthropology courses; ecology, economics, geography, history, political science, psychology, arts, biology, English, loreign languagus, mathematics, philosophy

Upper Division Program (60 semester hours)
Required Courses. (27 semester hours)

 Core Courses ANT 3086
 Anthropological Theories
 3

 SYA 3300
 Research Methods
 3

Sociological Theories

SYA 4010

SSI 3303 Ethical Issues in Social Science Research 3
Area Courses: either Anthropology or Sociology 15
Electives: with the approval of the laculty advisor 33

A grade of 'C' or higher is required for all courses that make up the major (12 semester hours of core courses and 15 semester hours of area courses in Sociology and Anthropology).

Tracks: The Department of Sociology/Anthropology offers the following academic tracks: 1) General Sociology/Anthropology; 2) Graduate Training; 3) Human and Social Services; 4) Community Research and Public Policy; 5) Communications and Arts; 6) Social Psychology. A student with special interests may consult faculty advisors to plan an individualized program of study.

Field Work Experience: A meaningful understanding of anthropology and sociology can best be developed through the interplay of theory and research. Each student will be encouraged to work outside the formal classroom under faculty supervision.

Minor in Sociology/Anthropology

Prescribed Courses: Fifteen credits in the Department of Sociology/Anthropology including two courses from the following:

ANT 3086 Anthropological
Theories 3
SYA 4010 Sociological Theories 3
SYA 3300 Research Methods 3
SSI 3303 Ethical Issues in Social
Science Research 3

Course Descriptions

Definition of Prefixes

ANT-Anthropology; DHE-Demography & Human Ecology; HUS-Human Services; LIN-Linguistics; MAF-Marriage & Family; SYA-Sociological Analysis; SYD-Sociology of Demography and Area Studies; SYG-Sociology, General; SYO-Social Organization; SYP-Social Processes

ANT 2003 Introduction to Anthropology (3). This course surveys the four subfields of anthropology, including physical anthropology and human evolution, archaeology, cultural anthropology and linguistics, and introduces basic anthropological theories and concepts.

ANT 3086 Anthropological Theories (3). This course examines the process of theory building and explanation in the

social sciences, and outlines the historical and philosophical foundations of anthropological thought. Theorists and schools of thought reviewed include Darwin and evolution; Boas and historical particularism; Freud and culture and personality; and Malinowski and functionalism.

ANT 3100 Introduction to Archaeology (3). The history of archaeology is traced from its origins to its emergence as a scientific discipline within anthropology. Students are familiarized with the concepts and methods of modern archaeology, and with the scientific goals of archaeological research.

ANT 3144 Prehistory of the Americas (3). Early man in the Americas is examined through archaeological records.

ANT 3241 Myth, Rituel, and Mysticism (3). A survey of anthropological approaches to the study of myth, ritual, and mysticism, as religious and symbolic systems. The social and psychological functions of myth and ritual in primitive and complex societies will be compared.

ANT 3251 Peasant Society (3). Comparative study of peasant societies with emphasis on the concepts of folk community, traditional culture, and modernization. Data on peasantry in Latin America and other culture areas will be reviewed.

ANT 3302 Male and Female: Sex Roles and Sexuality (3), Cross-cultural ethnographic data will be utilized to examine the enculturation of sex roles, attitudes and behavior; cultural definitions of maleness and femaleness; and varieties of human sexual awareness and response

ANT 3402 Anthropology of Contemporary Society (3). The application of classical anthropological methods and concepts to the analysis of contemporary Amorican culture Investigation of a unique cultural scene will involve the student in field work and the preparation of an ethnographic report

ANT 3403 Cultural Ecology (3).
Systems of interaction between man and his environment, the role of social, cultural, and psychological factors in the maintenance and disruption of ecosystems, interrelations of technological and environmental changes

ANT 3422 Kinship and Social Organization (3). Topics will include comparative study of systems of kinship,

social organization and politics in preliterate societies. Age and sex differences, division of labor, class, caste, slavery, and serfdom also will be explored.

ANT 3432 Culture and Personality (3). The relationship between culture and personality; problems of individual adjustment to cultural norms; and current issues is psychological anthropology.

ANT 3442 Urban Anthropology (3). Anthropological study of urbanization and urban life styles, with particular emphasis on rural-urban migration and its impact on kinship groups, voluntary associations, and cultural values.

ANT 3462 Medical Anthropology (3). A survey of basic concepts; examination of preliterate and non-western conceptions of physical and mental health and illness; emphasis on cultural systems approach to the study of illness and health care. Background in biology, medicine, or nursing helpful.

Prerequisite: Permission of instructor.

ANT 3476 Movements of Rebellion and Revitalization (3). Cross-cultural study of revolutionary, messianistic, and revitalization movements in tribal and peasant societies. Case materials include Negro-slave revolts, cargo cults, and peasant wars of the twentieth century (Mexico, China, Vietnam).

ANT 3500 Introduction to Physical Anthropology (3). A study of the biological history of man as interpreted through the theory of evolution, anatomy and the fossil record, contemporary population genetics, and the concept of race.

ANT 3642 Language and Culture (3). An examination of the relationship between language and culture, the implications of language for our perceptions of reality, and the sociocultural implications of language differences tor interethnic relations and international understanding.

ANT 4211-4360-4361-4328 Area Studies (3). Ethnological survey of selected indigenous cultures. Areas to be studied include: (1) North America; (2) Africa; (3) Asia or Southeastern Asia; (4) China. Topics will be announced and will vary depending on current staff.

ANT 4224 Tribal Art and Aesthetics
(3). This course deals with the social
and cultural context and junctions of art
in preliterate societies as in sub-Saharan
Africa, New Guinea, and North America.
Topics include wood carving, bronze
casting, singing, dancing, drumming,

masquerading, theatrical performance, and all forms of oral literature.

ANT 4305 Explorations in Visual Anthropology (3), An examination of the use of film in anthropology, both as a method of ethnographic documentation and as a research technique for analyzing non-verbal modes of communication. Documentary films and cross-cultural data on paralanguage, kinesics, proxemics, and choreometrics will be reviewed and discussed.

ANT 4306 The Third World (3). An interdisciplinary, cross-cultural survey of the factors contributing to the emergence of the Third World. Significant political, economic, pannational and pan-ethnic coalitions are analyzed.

ANT 4312 American Indian Ethnology (3). An examination of the sociocultural patterns of selected American Indian groups as they existed in the indigenous state, prior to European contact.

ANT 4324 Mexico (3). An interdisciplinary examination of the major social, cultural, economic, and political factors contributing to the transformation from the Aztec empire to colonial society to modern Mexico.

ANT 4328 Maya Civilization (3). A survey of the culture and intellectual achievements of the ancient Maya civilization of Mesoamerica. Course includes: history and social-political structure, archaeology, agriculture and city planning, mathematics, hieroglyphics, astronomy, and calendars.

ANT 4332 Latin America (3). Native cultures of Mexico, Central and South America; the lowland hunters and gatherers, and the pre-Columbian Inca and Aztec Empires; the impact of the Spanish conquest.

ANT 4335 Inca Civilization (3). A survey of Andean culture history with emphasis on Inca and pre-Inca civilizations. Includes discussion of peopling of South America, habitats, and the transition from loraging to village settlements, and the rise of indigenous empires.

ANT 4340 Cultures of the Caribbean (3). An ethnological survey of native cultures and of the processes of culture contact and conflict in the Caribbean and Circum-Caribbean region.

ANT 4343 Cuban Culture and the Revolution (3). Cultural history of Indian, African, and Spanish

populations; the Revolution and traditional Cuban society; the problems and prospects of the Cuban community in the United States.

ANT 4352 African Peoples and Cultures (3). This course includes a survey of the cultures and civilizations of sub-Saharan Africa. It includes discussions of history, geography, sociopolitical structures, religion, art, music, and oral literature.

ANT 4406 Anthropology of War and Violence (3). The purpose of this course is to introduce the scientific study of human aggression and warfare from an evolutionary and cross-cultural perspective in order to gain a better understanding of the causes and consequences of such behavior, and to evaluate proposed options for the control of warfare.

ANT 4433 Psychological
Anthropology (3). Cross-cultural
studies in cognition, possession states,
myth making and world view are
examined. The interface of
anthropology, psychology and psychiatry
is reviewed.

ANT 4451 Racial and Cultural Minorities (3). The study of selected ethnic and cultural groups, with particular emphasis on patterns of interethnic and intercultural relationships. Minority groups studied may include Alro-Americans, American Indians, Chicanos, Cubans, women, senior citizens or prisoners.

ANT 4460 Hallucinogens and Culture (3), Cross-cultural examination of the political, religious, and socio-cultural factors related to altered states of consciousness, including dreams and images. Applications to contemporary psychology are explored.

ANT 4552 Primate Behavior and Ecology (3). This course covers the evolution of primates, and primate ecology, social organization, and intelligence. The course will provide students with opportunities to observe and study living primates.

ANT 4723 Education and Socialization (3). A cross-cultural examination of educational and socialization processes, their functions in the larger society, and the value systems they transmit.

ANT 4907 Directed Individual Study (VAR), Supervised readings and/or field research and training. Prerequisite: Permission of instructor.

ANT 4908 Directed Field Research (VAR), Permission of instructor required.

ANT 4930 Topics in Anthropology (3). Special courses dealing with advanced topics in the major anthropological subdisciplines: (1) social and cultural anthropology, (2) applied anthropology, (3) physical anthropology, (4) linguistics, and (5) archaeology. Instruction by staff or visiting specialists. Topics to be announced. Instructor's permission required. May be repeated.

ANT 5496 Social Research and Analysis (3). A graduate overview of the scientific methods used in intercultural studies. Includes the philosophical basis of science, research design, and hypothesis testing using both secondary and original data. Students will conduct a research project in this course. Prerequisite: Graduate status or permission of the instructor.

ANT 5908 Directed Individual Study (VAR). Supervised readings and/or field research and training. Prerequisite: Permission of instructor.

ANT 5915 Directed Field Research (VAR). Permission of instructor required.

SSI 3303 Ethical Issues In Social Science Research (3). An introduction to the problems of possibilities of ethical premises in the perspectives and work of social scientists. Examination of historical interrelationships between moral philosophies and developing scientific methodologies. Analyses of contemporary social ethicists' attempts to assume moral postures while examining social relations. Case studies involving issues such as nation building in areas of accelerated change including Africa and Asia.

SYA 3300 Research Methods (3). An introduction to the scientific methods and its application to anthropological and sociological research. Topics include: formulation of research problems; research design; field methods and collection of data; hypothesis testing and interpretation of results.

SYA 3949 Cooperative Education in Social Sciences (3). A student majoring in one of the Social Sciences (Economics, International Relations, Political Sciences, Sociology, or Psychology) may spend one or two semesters fully employed in industry or government in a capacity rolating to the major. Prerequisite 'Permission of Cooperative Education Program and major department

SYA 4010 Sociological Theories (3). Examines the emergence of sociology

as the study of social relations. Compares and contrasts the work of selected theorists, with respect to their methodologies, treatment of the emergence and consequences of modern society, political sociology, conception of social class, and analysis of the role of religion in society. The student is expected to gain in-depth knowledge of opposing theories, as well as an appreciation of the contingent nature of sociological theories.

SYA 4011 Advanced Social Theory (3). An analysis of various classical and current sociological theories, with particular attention paid to their conceptions of man in society and the wider implications such conceptions have. The theories of Durkheim, Parsons, Weber, Goffman, Bendix, and Dahrendorf are examined.

SYA 4124 Social Theory and Third World Innovations (3). An examination of the contributions to social theory by intellectuals of the Third World. Particular attention is paid to theory derived from classical Marxism.

SYA 4170 Comperative Sociology (3). A cross-cultural and cross-national survey of sociological studies, with particular emphasis on theoretical and methodological issues. Examples will be drawn from studies on culture patterns, social structures, sexual mores, power relationships and the ethical implications of cross-national research.

SYA 4330 Basic Research Design (3). Advanced course in social research, providing research practicum for studying patterns of human behavior; analyzing findings of studies, methodical and analytical procedures; reporting and explaining these results; and applying these inferences to concrete situations. Also acquaints the student with the use of computers in research in the behavioral sciences.

SYA 4354 Historical Sociology (3). The authenticity and meaning of historical data for sociological research. Systematic theories in history are analyzed for their utility in sociology. Particular emphasis on the sociological uses of the comparative method in history.

SYA 4621 Sociology of the 20th Century (3). An examination of the sociological implications evident in the events of our modern world. Heavy reliance is placed on intollectual materials other than social science, especially literature.

SYA 4905 Directed Individual Study (VAR). Supervised readings and/or hold

research and training. Prerequisite: Permission of instructor.

SYA 4941 Directed Field Research (VAR), Permission of instructor required.

SYA 4949 Cooperative Education in Social Sciences (3). A student majoring in one of the Social Sciences (Economics, International Relations, Political Science, Sociology, or Psychology) may spend one or two semesters fully employed in industry or government in a capacity relating to the major. Prerequisites: Permission of Cooperative Education Program and major department.

SYA 5130 Sociology of Knowledge (3). The study of the theoretical basis of knowledge and the inter-relatedness of knowledge and social factors, particularly as knowledge relates to institutional forms of behavior.

SYA 5909 Directed Individual Study (VAR). Supervised readings and/or field research and training. Prerequisite: Permission of instructor.

SYA 5941 Directed Field Research (VAR). Permission of instructor required.

SYA 6975 Thesis (1-6). Registration for students working on their thesis for the M.A. in International Studies. Prerequisite: All other course work for the Master's in International Studies.

SYD 3600 The Community (3). The social group known as the community is identified and analyzed for its distinctive qualities. By distinguishing it from other social groups, its dominating force on the behavior of its members is isolated Attention is given to the interaction of individuals and groups as they exist within the community.

SYD 4410 Urban Sociology (3). Study of the urban community, with particular attention to the problems associated with urban life. The dovelopment of urban societios is reviewed historically, and factors associated with this dovolopment are identified.

SYD 4601 Community Organization (3). An intensive study of how communities are organized, with special emphasis on the interactive processes of the varied components of a community. Special study, permitting students to concentrate on interest areas, is required

SYD 4610 Area Studies: Social Structures and Problems (3). Special courses on the social structures and related problems of specific geographical and cultural areas. To be offered at various times.

SYD 4630 Letin American and Caribbean Social Structures (3). Exploration of the types of social structures, statuses, and roles, and the resulting distributions of power and authority in the hemisphere.

SYD 4700 Minorities/Race and Ethnic Relations (3). The study of social groups identified by racial or ethnic characteristics. Particular emphasis is given to the role of minorities in society, and the interactive process resulting from their contact with the majority. Social behaviors of minorities are reviewed and related to institutional structures and their accepted norms.

SYD 4701 Social Conflict In Multi-Ethnic Societies (3). Cases are selected from a variety of societies with differing types of majority-minority situations. Prejudice and discrimination are seen as weapons in group and class conflict. The consequences of prejudice are analyzed in terms of the costs to every group in the society.

SYD 4704 Seminer in Ethnicity (3). An upper-level seminar, stressing a comparative sociological approach to the study of two or more racial-ethnic groups. Emphasis on the interrelations of ethnic communities within the same society and the socio-political effects of these interrelations. Prerequisite: SYD 4700 or permission of Department.

SYD 4810 The Role of Women in Contemporary Society (3). A concentrated study of women in society, addressing role origins and their development in contemporary society. Particular attention given to how such behaviors become normalized and the rapidity with which they change.

SYG 2000 Introduction to Sociology (3), This course introduces the sociological perspective and method, and the basic areas of sociological interest such as socialization, sex roles, social groups, race and ethnic relations, deviance and social control, social stratification, and urban life.

SYG 3002 The Basic Ideas of Sociology (5). The course introduces the student to the ideas of community, authority, status, alienation, and the sacred, as used in sociological literature.

SYG 3010 Social Problems (3). An introduction to the concept of a social problem and the approaches used to understand more fully the total dimensions of some specific problems.

Special emphasis is given to clarifying one's understanding of the underlying nature of selected social problems, an analysis of those aspects amenable to remedy, and an inventory of the knowledge and skills available.

SYO 3120 Marriage and the Family (3). An introduction to the intensive study of the kinship relationship of man known as family. The family is distinguished from other special units, and behavior variations of this special unit are analyzed and associated with special functions. Contemporary manifestations of the family and the dynamic changes indicated are considered.

SYO 3250 School and Society (3). A specialized course dealing with the place of schools (particularly public) in society, the import of social criteria for school personnel, and the influence of such criteria on educational processes within the school system (institution).

SYG 3320 Social Deviancy (Deviant Behavlor) (3). The study of behavior that counters the culturally accepted norms or regularities. The social implications of deviancy are reviewed, and theoretical formulations regarding deviant behavior are analyzed.

SYO 4130 Comparative Family Systems (3). The study of family organization and function in selected major world cultures. Emphasis is given to the inter-relationships of the family, the economic system, urbanization, and human development.

SYO 4200 Sociology of Religion and Cults (3). The study of religions institutions, their structure and function in various societies. Leadership qualities, participation, and practices, and the relationship of religious institutions to other social institutions are studied.

SYO 4300 Polltical Sociology (3). The underlying social conditions of political order, political process, and political behavior are explored. Examples are drawn from empirical and theoretical studies of power, elites, social class and socialization.

SYO 4530 Social Stratification (Mobility) (3). The study of society structured hierarchically with particular attention to the form and content of the various levels. Problems in the social order and differential human behaviors associated with stratification are analyzed.

SYO 4571 The Problems of Bureaucracy In The Modern World (3). The course deals with the microsociological problems of the internal organization of bureaucracies; the relation between bureaucracy and personality; the macro-sociological problems of the emergence of the bureaucratic form; bureaucratization and contemporary life; general problems of affluence; meaningless activity; ways to beat the bureaucracy; and bureaucracy and atrocity.

SYO 4582 Studies in Comparative Lifestyles (3). A problem-oriented course emphasizing the differential behavior associated with categories such as nationalism, social class, income distribution, and political or religious affiliation.

SYP 3000 The individual in Society (3). Introduction to the study of the individual as a social being, with particular emphasis on man's social origins, human perceptions, and the interaction of the individual and the group within society.

SYP 3030 Small Groups (3). Survey of small group studies, their development and the associated theoretical schools of thought. The significance of small group studies for social theory is evaluated.

SYP 3300 Collective Behavior (3). The study of human behavior as found in relatively unstructured forms, such as crowds, riots, revivals, public opinion, social movements and fads. The interplay of such behavior and the rise of new norms and values is analyzed.

SYP 3400 Social Change (3). The study of major shifts in focus for societies or culture, and the indicators associated with such changes. Particular attention is given to the development of industrial societies and the dynamics involved for nations emerging from various stages of 'underdevelopment.'

SYP 3520 Criminology (3). An introduction to the study of criminal behavior, its evidence in society, society's reaction to the subjects involved, and the current state of theoretical thought on causality and treatment.

SYP 3530 Delinquency (3). An analysis of behavior which is extra-legal, with major concentration on its appearance among young people (juveniles) and society's response. Particular emphasis is given to the dynamic thrusts being made in establishing juvenile rights as a distinct part of human or civil rights.

SYP 4321 Mass Culture (3). Analysis of the social, political and cultural impact of mass communications.

SYP 4410 Social Conflict (3). The study of conflict in society and its place in social relationships. A study of causes and resolutions, with particular emphasis on methods of resolution and their influence on social change.

SYP 4421 Man, Society and Technology (3). The study of contemporary society, man's role in it. and effects of technological change. A study of interrelationships, with special attention given to vocational study and instruction within the framework of the relationships perceived.

SYP 4441 Sociology of the Underprivileged Societies (3), An examination of the various theories concerning what is happening in the 'underdeveloped world.' The political, social, and economic events of these societies are subjected to sociological analysis.

SYP 4601 Symbols and Society (3), An analysis of the effect of culture on the individual and on society. The roles of popular and intellectual culture will be examined

SYP 4730 Sociology of Aging (3). The social impact of aging on individual and group interaction patterns, particularly in the areas of retirement, family relations. community participation and social services. Explores the major sociological theories of aging in light of current research.

SYP 4740 Sociology of Death (3). An introduction to 'death' as social phenomenon. Attention given to various approaches which systematically study death, with primary emphasis given to the sociological approach. Major attention is given to an exploration of attitudes toward death, and an assessment of the implications for the respective groups involved.

Statistics

Carlos W. Brain, Associate Professor and Chairperson

Michesi Andreoil, Visiting Instructor Gauri L. Ghai, Associate Professor Laura Howard, Instructor ina Parks Howell, Lecturer Shing-Her Juang, Assistant Professor Shih-Chang Lee, Assistant Professor Samuel S. Shapiro, Professor Hassan Zahedl-Jasbl, Assistant Professor

Degree: Bachelor of Science

Lower Division Preparation To qualify for admission to the program. FIU undergraduates must have met all

the lower division requirements including CLAST, completed sixty semester hours. and must be otherwise acceptable into the program.

Lower or Upper Division Preparation:

(17)		
MAC 3311	Calculus I	3
MAC 3312	Calculus II	3
MAC 3313	Multivariable Calculus	3
MAS 3105	Linear Algebra	3
COP 3210	Programming in PASC.	ΑL
	or	
CGS 3420	FORTRAN for	
	Engineers	

Upper Division Program		
Required Cou	rses: (50)	
STA 3163	Statistical Methods I	3
STA 3164	Statistical Methods II	3
STA 3321	Introduction to	
	Mathematical	
	Statistics I	3
STA 3322	Introduction to	
	Mathematical	
	Statistics II	3
ENC 3210	Technical Writing	3

Eighteen additional approved Mathematical Sciences courses (Computer Science, Mathematics, or Statistics), with at least 15 hours in statistics

Electives: The balance of the 120 semester hour requirement for graduation may be chosen from any courses in the University approved by the student's advisor.

Remarks: The student must consult his or her advisor to determine which courses, in addition to the required courses listed above, satisfy the requirements for a statistics major. The following courses are not acceptable for credit toward graduation, unless a student has passed the course before declaring a Statistics major; MAC 3233. STA 3013, STA 3122, STA 3123, STA 3132, STA 3033, and QMB 3150 (College of Business Administration),

Minor In Statistics

Required Cou	ırses	
STA 3321	Introduction to	
	Mathematical	
	Statistics I	3
STA 3322	Introduction to	
	Mathematical	
	Statistics II	3
STA 3163	Statistical Methods I	3
STA 3164	Statistical Methods II	3
A grade of 'C' or higher in each of these		
courses is ne	cessary for the minor.	

Remarks: No mathematical sciences courses (Computer Science,

Mathematics, or Statistics) can be applied to more than one minor, nor can courses used to satisfy major requirements be used towards minor requirements. In the case where a mathematical science course is required for a major in the one area and a minor in another, the student should see his or her advisor for an appropriate substitution for the requirement of the

Course Description

Definition of Prefixes

STA - Statistics, MAP - Mathematics, Applied.

MAP 5117 Mathematical and Statistical Modeling (3). Study of ecological, probabilistic, and various statistical models. Prerequisites: MAC 3313, COP 3210 or CGS 3420, MAS 3105; and STA 3322 or STA 3164 or STA 3033

STA 3013 Statistics for Social Services (3). This is an elementary course in statistics, covering graphical and numerical condensation of data as well as the most basic parametric and non-parametric methods. Emphasis is placed on the interpretation of statistical results, rather than on ways to analyze experimental data.

STA 3033 Introduction to Probability and Statistics for CS (3). Basic probability laws, probability distributions, basic sampling theory, point and interval estimation, tests of hypothesis. regression and correlation. Mini tab will be used in the course. Prerequisite MAC 3312.

STA 3122-STA 3123 Introduction to Statistics I and II (3-3). A course in descriptive and inferential statistics. Topics include: empirical and theoretical probability distributions; point and interval estimation: hypothesis testing; analysis of variance, regression, correlation, and basic non-parametric tests.

STA 3132 Business Statistics (3). Starting with an introduction to probability, the course provides an introduction to statistical techniques used in management science, it includes descriptive statistics, probability distributions, estimation and testing of hypothesis

STA 3163-STA 3164 Statistical Methods I and II (3-3), This course presents tools for the analysis of data. Specific topics include: use of normal distribution, tests of means, variances and proportions: the analysis of variance and covariance (including contrasts and

components of variance models), regression, correlation, sequential analysis, and non-parametric analysis. Prerequisite: College algebra or first course in statistics.

STA 3182 Statistical Models (3). This is a specialized course in the use of statistical models to represent physical and social phenomena. The emphasis is on providing tools which will allow a researcher or analyst to gain some insight into phenomena being studied. An introductory knowledge of probability theory and random variables is assumed. Specific topics include: introduction to discrete and continuous probability distributions, transformation of variables, approximation of data by empirical distributions, central limit theorem, propagation of moments, Monte Carlo simulation, probability plotting, testing distributional assumptions. Prerequisites: MAC 3313 and first course in statistics.

STA 3321-STA 3322 Introduction to Mathematical Statistics I and II (3-3). This course presents an introduction to the mathematics underlying the concepts of statistical analysis. It is based on a solid grounding in probability theory, and requires a knowledge of single and multivariable calculus. Specific topics include the following: basic probability concepts, random variables, probability densities, expectations, moment generating functions, sampling distributions, decision theory, estimation, hypothesis testing (parametric and nonparametric), regression, analysis of variance, and design of experiments. Prerequisite: MAC 3313.

STA 3905 Independent Study (VAR). Individual conferences, assigned readings, and reports on independent investigations.

STA 3930 Special Topics (VAR). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

STA 4173-HSC 4510 Statistical Applications in Health Care (3). A course in descriptive and inferential statistics for the Health Services. Topics include probability distributions, point and interval estimation, hypothesis testing, regression and correlation, and contingency table analysis. Prerequisite: STA 3013 or equivalent college mathematics course.

STA 4664 Statistical Quality Control (3). This course presents the simple but powerful statistical techniques employed by industry to improve product quality and to reduce the cost of scrap. The

course includes the use and construction of control charts (means, percentages, number defectives, ranges) and acceptance sampling plans (single and double). Standard sampling techniques such as MIL STD plans will be reviewed.

STA 4905 Independent Study (VAR). Individual conferences, assigned readings, and reports on independent investigations.

STA 5107 Statistical Computing (3). Data manipulation and statistical procedures using popular software, simulation, and statistical algorithms. Prerequisites: STA 3164 or STA 3123, and COP 3210 or CGS 3420.

STA 5126/PSY 5206 Design of Experiments in Psychological Research (3). The following topics will be included as they relate to psychological research: A review of analysis of variance in randomized and blocked designs, pairwise and multiple comparison tests, analysis of variance in factorial, nested and split-plot experiments, and analysis of covariance. Computer software packages will be used for some analyses. Prerequisites: STA 3122 and STA 3123 or equivalent.

STA 5206 Design of Experiments (3). This is an applied course dealing with the design and analysis of experiments employed in scientific and industrial research. A knowledge of the basic fundamentals of hypothesis testing and analysis of variance is assumed. Topics include: multiple comparision tests, completely randomized design, randomized blocks, Latin Square and related designs, nested and factorial experiments. Perequisites: STA 3322 or STA 3164

STA 5207 Topics in Design of Experiments (3). This applied course in design of experiments covers topics such as split-plot design, confounding, fractional replication, incomplete block designs, and response surface designs. Prerequisite: STA 5206.

STA 5236 Regression Analysis (3). The matrix approach to linear regression. Analysis of residuals. Multiple linear regression. Model building techniques including robust regression methods, criteria for best model selection, influence diagnostics. Prerequisites: STA 3164 or STA 3123 and MAS 3105.

STA 5446-STA 5447 Probability
Theory I and II (3-3). This course is
designed to acquaint the student with
the basic fundamentals of probability
theory. It reviews the basic foundations

of probability theory, covering such topics as discrete probability spaces, random walk, Markov Chains (transition matrix and ergodic properties), strong laws of probability, convergence theorems, and law of iterated logarithm. Prerequisite: MAC 3313.

STA 5505 Practical Non-parametric Statistics (3). This course deals primarily with tests of hypotheses for situations where standard parametric procedures (I-test, F-test, etc.) cannot be applied. Topics include binomial, multinomial and Poisson tests, permutation test, sign test, Mann-Whitney U test, Wilcoxon signed rank test, rank correlation, contingency chisquare, Kruskal-Wallis one-way ANOVA by ranks, Friedman test and other non-parametric tests. Prerequisite: First course in statistics.

STA 5676 Reliability Engineering (3). The course material is designed to give the student a basic understanding of the statistical and mathematical techniques which are used in engineering reliability analysis. A review will be made of the basic fundamental statistical techniques required. Subjects covered include: distributions used in reliability (exponential, binomial, extreme value, etc.); tests of hypotheses of failure rates; prediction of component reliability; system reliability prediction; and reliability prediction; and reliability apportionment. Prerequisite: STA 3322.

STA 5800 Stochastic Processes for Engineers (3). Probability and conditional probability distributions of a random variable, bivariate probability distributions, multiple random variables, stationary processes, Poisson and normal processes. Prerequisites: STA 3033, MAC 3313, MAP 3302.

STA 5826 Stochastic Processes (3). This course is intended to provide the student with the basic concepts of stochastic processes, and the use of such techniques in the analysis of systems. Subjects include: Markov Processes, queuing theory, renewal processes, birth and death processes, Poisson and Normal processes. Applications to system reliability analysis, behavioral science, and natural sciences will be stressed. Prerequisite: STA 5447.

STA 5906 Independent Study (VAR). Individual conferences, assigned reading, and reports on independent investigation.

STA 6166 Statistical Methods in Research I (3). STA 6167 Statistical Methods in Research II (3). For non-mathematical sciences graduate students. A noncalculus exposition of methods and applications of statistical techniques for the analysis of data. Statistical packages will be used. Prerequisite: Graduate standing.

STA 6246 Data Analysis I (3).

Exploratory data analysis: testing of distributional assumptions; Chi-square tests, tests for means, variances, and proportions. Prerequisites: STA 3033, STA 3322, or STA 6355.

STA 6247 Data Analysis II (3). Analysis of variance, regression analysis. Analysis of covariance, quality control, correlation, empirical distributions. Prerequisites: STA 6204 and MAS 3105.

STA 6326 Mathematical Statistics I (3). An introduction to the theories underlying statistical analysis. Basic concepts of probability theory, combinatorial analysis, random variables, and expectation. Prerequisite: MAC 3313.

STA 6327 Mathematical Statistics II (3). Estimation of parameters, tests of hypotheses, regression, non-parametric methods, analysis of variance, and multivariate concepts. Prerequisite: STA 6354.

STA 6807 Queuing and Statistical Models (3). Review of probability concepts, basic probability distributions, Poisson process, queuing models, statistical models. Prerequisites: Permission of Instructor, MAC 3312 and either STA 3033 or STA 3321.

STA 6940 Supervised Statistical Consulting (3). Formulation of statistical problems from client information, consulting session management, interpersonal aspects of consulting, problem solving techniques. Prerequisites: Permission of instructor, STA 5107, STA 6355, and STA 6205

STA 7707 Multivariate Methods I (3). Multivariate normal, Wishart and Hoetlling's distributions Interences for one and two mean vectors Profile analysis. One- and two-way MANOVA. Multivariate multiple regression Prerequisite: STA 3123

STA 7708 Multivariate Methods II (3). Principal components analysis Factor analysis. Canonical correlation analysis. Discriminant analysis Cluster analysis Multidimensional scaling Prerequisite: STA 7707.

Theatre and Dance

Therald Todd, Associate Professor and Chairperson

Patrice Balley, Instructor Lee Brooke, Assistant Professor Philip Church, Associate Professor Zak Herring, Assistant Professor Denise Kraus, Instructor Mary Ellen O'Brien, Assistant Professor Marilyn Skow, Assistant Professor

Degree: Bachelor of Fine Arts

The goal of the theatre program is to provide intensive theatre training through classes and productions conducted with professional theatre discipline and the highest possible aesthetic standards. In addition to completion of course work, theatre majors are required to participate in all of the major productions presented while the student is enrolled in the Theatre Program.

Students will complete the core courses and select a specialization in either Acting or Production.

The degree requirements represent a four year program. Upper division transfers must have their lower division preparation evaluated by the department and will be advised accordingly.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Required Courses: (46 semester hours

nours,		
THE 2020	Introduction to Theatre	3
TPP 2110	Acting I	5
TPP 3111	Acting II	5
TPA 3010	Scenic Design I	3
TPA 2210	Stagecraft I	3
TPA 3220	Stage Lighting I	3
TPA 3230	Stage Cestuming I	3
TPA 3250	Stage Make-up	3
TPA 3290L	Technical Theatre	
	Lab I	1
TPA 3291L	Technical Theatre	
	Lab II	1
TPA 3292L	Technical Theatre	
	Lab III	1
TPA 3293L	Technical Theatre	
	Lab IV	1
TPP 3310	Directing	3
TPA 3650	Playscript Analysis	3
THE 4110	Theatre History	3
THE 4111	Theatre History II	3
THE 4970	Senior Project	2

Additional required courses for the

Acting specia	ilization (55 semester	
hours).		
TPP 3112	Acting III	3
TPP 3113	Acting IV	3
TPP 4820	Actor's Workshop	3

Additional required courses for the Production specialization (55 semester hours): TPA 3930

Special Topics in Technical Production 3

TPA 4400	Theatre Management
and one course	selected from the
following:	
TPA 4061	Scenic Design II
	Stagecraft II
TPA 4221	Stage Lighting II
TPA 4231	Stage Costuming II

3

Minor in Dance

	ourses: (20 semester	
hours minin	num)	
DAA 1200	Ballet Technique I	2
DAA 3201	Ballet Technique II	3
DAA 1100	Modern Dance	
	Technique I	2
DAA 1500	Jazz Dance	
	Technique I	2

Five credit hours of additional study in above techniques with the option of adding DAA 2101 Modern Dance Technique II

Six credit hours to be selected from the

following:		
DAA 3700	Dance Composition I	3
MUH 1001	Musical Art Course	3
DAN 2100	Introduction to Dance	3
THE 2020	Introduction to	
	Theatre	3
TPA 3290L	Technical Theatre	
	Lab I	1
DAA 3420	Modern Dance	
	Repertory	- 1
DAE 3371	Dance in the Elementa	ry
	and Middle School	3
DAE 4362	Dance in the Elementa	гу
	and Middle School	3
TPA 4400	Theater Management	3
PET 3310	Kinesiology	3

Minor In Theatre

Required Co	urses: (23 semester ho	urs)
THE 2020	Introduction to	
	Theatre	3
TPP 2110	Acting I	5
Theatre Elec	tives (upper division)	15
A grade of 'C	or higher in all course	S
required for t	he major is necessary	lor
graduation		

Course Descriptions

Definition of Prefixes

DAA Dance Activities, ORI-Oral Interpretation, SPC Speech Communication; THE-Theatre, TPA-Theatre Production and Administration, TPP-Theatre-Performance and Performance Training

DAA 1100 Modern Dance Technique I (2). Development of techniques and understanding of the art form of contemporary dance. May be repeated

DAA 1200 Ballet Technique I (2). Development of techniques and understanding of ballet. May be repeated

DAA 1500 Jazz Dance Techniques (2). Development of the dance techniques and understanding of jazz dance. May be repeated.

DAA 2101 Modern Dance Technique II (3). A continuation of basic techniques and understanding of the art form of contemporary dance. Prerequisite: DAA 1100 or permission of instructor. May be repeated.

DAA 3102 Modern Dance Technique III (3). A continuation of Modern Dance I and II with an emphasis on skills in movement style and phrasing necessary to perform modern dance repertory. Prerequisite: DAA 2101 or permission of instructor.

DAA 3201 Ballet Technique II (3). A continuation of basic the techniques and understanding of ballet. Prerequisite: DAA 1200 or permission of instructor. May be repeated.

DAA 3280 Ballet Variations I (1). introduction of fundamentals for development of pointe technique. May be repeated. Prerequisite: Permission of Instructor.

DAA 3420 Modern Dance Repertory (1). The study and practice of works in the modern dance repertory. May be repeated. Prerequisite: Permission of instructor.

DAA 3700 Dance Composition I (3). A study of the principles of composition emphasis on improvisation to explore structure and form in dance.

Prerequisite: Permission of instructor.

DAN 2100 Introduction to Dance (3). A study of western dance, introducing its history and its contemporary forms leading to an awareness and appreciation of the art of dance through movement, lecture, and film.

DAN 4110 Dance History (3). An introduction to the history of western dance from its beginnings to the present time.

ORI 3000 Basic Oral Interpretation (3). Development of the voice as an instrument for expressive interpretation of literature.

ORI 3001 intermediate Oral Interpretation (3). A continuation of the basic techniques of oral interpretation with emphasis on program development. Programs will include poetry, prose, and drama. Prerequisite: ORI 3000.

PGY 3020 Introduction to Film making (3). For the beginning student of lilm making. Survey of the origins and

development of cinematography as an art form. Presentation and technical analysis of selected films.

SPC 2600 Public Speaking (3). Study of the principles of ethical and effective public speaking, with practice in the construction and delivery of original speeches before an audience.

SPC 3513 Argumentation and Debate (3). Lectures and activities concerned with audience-centered reasoning. Topics include: Nature of argument, analysis, reasoning, evidence, values, and building and refuting arguments. Prerequisite: SPC 2600 or permission of instructor.

THE 2000 Theatre Appreciation (3). A study of theatre: process and product, introducing the past of theatre, its literature and traditions; and the means by which theatre is produced: acting, directing and visual design.

THE 2020 Introduction to Theatre (3). An intensive introduction to theatre, its nature, history and production processes. For theatre majors and minors or students with theatre background.

THE 3051 Children's Theatre (3). Techniques of selection, production, and performance of plays for children.

THE 4110 Theatre History I (3). The development of the theatre from its origins to the early 19th century.

THE 4111 Theatre History ii (3). The development of the theatre from early 19th century to the present.

THE 4370 Modern Dramatic Literature (3). Intensive play reading and discussion from early modern through contemporary.

THE 4820 Creative Dramatics (3). The study of informal drama activity with children. Techniques of improvisation, sense recall, music, and movement are employed.

THE 4916 Research (1-5). Supervised individual investigation of special research projects. Credit will vary with the nature and scope of the project. May be repeated.

THE 4950 Theatre Internship (1-15). Supervised internship in a professional company in acting, directing, stage management, design, technical theatre, or theatre management.

THE 4970 Senior Project (2).
Preparation of a final creative project in

the student's area of emphasis under the direction of a faculty advisor.

TPA 2210 Stagecraft I (3). An introduction to construction techniques used in stage. Direct experience with wood and metal working tools, blueprint reading, and various materials including wood, metal, plastics and fabrics. Lecture and laboratory. Prerequisite: Prior arrangement with advisor.

THE 5916 Research (1-5). Supervised individual investigation in special research projects. Credit will vary with the nature and scope of the project. May be repeated.

TPA 2210 Stagecraft i (3). An introduction to construction techniques used in stage. Direct experience with wood and metal working tools, blueprint reading, and various materials including wood, metal, plastics and fabrics. Lecture and laboratory.

TPA 3010 Scenic Design I (3). Fundamentals of designing effective settings for the play. Discussion and practice in: analysis, research, the creation of appropriate and exciting environments for the actor, and basic skills in rendering and model making. Prerequisite (for Theatre majors): TPA 2210.

TPA 3071 Stage Rendering (3). An introduction to the techniques used in rendering scenery and costume design concepts. Recommended as preparation for TPA 3010 and TPA 4230.

TPA 3220 Stage Lighting (3). Familiarization with stage lighting equipment, purposes, and aesthetics of stage lighting; development of an approach to designing lighting; practical experience in the use of equipment. Lecture and laboratory.

TPA 3230 Stage Costuming I (3). Fundamentals of costume design. Study of period, character, and concept. Familiarization with fabrics and techniques of construction and trim.

TPA 3250 Stage Make-up (3), Fundamentals of straight and character makeup. Use of greasepaint and three dimensional techniques.

TPA 3290L Technical Theatre Lab I (1). Supervised crew work in construction, painting, lighting, costuming, and running major productions. Required of Theatre majors.

TPA 3291L Technical Theatre Lab II
(1). Supervised crew work. Required of Theatre majors.

TPA 3292L Technical Theatre Lab III (1), Supervised crew work. Required of Theatre majors.

TPA 3293L Technical Theatre Lab IV (1). Supervised crew work. Required of Theatre majors. Prerequisite: TPA 3292L.

TPA 3930 Special Topics in Technical Production (1-3). Lecture-lab studies in particular areas of theatre production, one area per semester, including stage management, prop making, sound design, special effects.

TPA 4061 Scenic Design II (3). Advanced skills in setting the mood of. and creating movement through a theatrical space. Emphasis will be placed upon rendering techniques and model making, Prerequisite: TPA 3010.

TPA 4201 Stagecraft II (3). Advanced problems in the construction and movement of scenery, properties, and special effects. Prerequisite: TPA 3200.

TPA 4221 Stage Lighting II (3). Advance work in lighting of the stage. Emphasis is on practical training and experience through drafting of light plots accompanied by discussion and evaluation. Prerequisite: TPA 3220.

TPA 4231 Stage Costuming II (3). Advanced skills in designing, rendering, and construction costumes. Includes pattern making and charting the show. Prerequisite: TPA 4230

TPA 4400 Theatre Management (3). Survey of all aspects of theatre administration: budget planning and maintenance: public relations; box office and house management; unions and contracts.

TPP 2100 introduction to Acting (3) An introduction to the acting process. Self awareness, physical and vocal control, basic stage technique and beginning scene work will be studied Intended for the student with little or no acting experience.

TPP 2110 Acting I (5) Development and training of basic skills: use of self, stage terminology, stage voice and movement. Intended for the serious theatre student.

TPP 3111 Acting II (5). A continuation of the development and training of basic skills: improvisation, scripted dialogues. voice and movement. Use of self in scene work Prerequisite: TPP 2110

TPP 3112 Acting III (3), Continuation of the development and training of acting

skills with an emphasis on characterization. Prerequisite: TPP 3111.

TPP 3113 Acting IV (3). Continuation of the development and training of acting skills with emphasis on a variety of styles, Prerequisite, TPP 3112.

TPP 3250 Musical Theatre Workshop (3). An introduction to Musical Comedy performance; integration of the dramatic. musical and movement components will be studied through work on selected scenes.

TPP 3310 Directing (1). Basic principles of play direction; including problems of selecting, analyzing, casting, and rehearsing plays. Prerequisites: TPP 3111 and TPP 3650.

TPP 3650 Playscript Analysis (3). Detailed playscript examination for directors, actors and designers, focusing on identification of those elements upon which successful theatre production depends.

TPP 3730 Dialects (3), A study of dialects common to western theatre. TPP 4311 Directing II (3). A continued study of direction techniques culminating in the preparation of a play for public performances, Prerequisite: TPP 3310.

TPP 4311 Directing II (3), A continued study of directing techniques culminating in the preparation of a play for public performance. Prerequisite: TPP 3310.

TPP 4531 Stage Combat (3). A study of combat techniques for the stage, including fencing, boxing, wrestling, and tumbling.

TPP 4600 Playwriting (3). Study of the theory and principles of writing plays for the stage. Practice in writing either the short or long play. May be repeated

TPP 4920 Actor's Workshop (3). This course will concentrate on the Acting demands of a specific period, style, genre, or playwright. Prerequisite: TPP 3113 or permission of instructor.

Visual Arts

William Maguire, Associate Professor and Chairperson

Ratph F. Buckley, Associate Professor William Burke, Associate Professor James M. Couper III. Professor Eduardo Del Valle, Assistant Professor Richard Duncan, Associate Professor Mirts Gomez, Assistant Professor Ellen Jacobs, Professor Dahlla Morgan, Lecturor/Art Museum Director

Manuel Torres, Assistant Professor

Barbara Watts, Assistant Professor Sandra Winters, Assistant Professor Francis Wyroba, Professor

Degree: Bachelor of Fine Arts

Lower Division Preparation	
Required Courses	
Art Survey I & II	6
2-D and 3-D Design	6
Basic Drawing and Figure Drawing	6
Beginning Studio Courses	6

Recommended Studio Courses: Painting, Sculpture, Printmaking, Ceramics, Photography, Jewelry, Glass, Drawing.

Remarks: The student who does not have an A.A. degree or who lacks proficiency in required courses, or both. will be expected to take more than 60 semester hours to complete the bachelor's degree, or to make up courses at the lower division level. To qualify for admission to the program. FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program (60 semester hours)

Required Cou	rses: (39 semester h	ours)
ARH 4450	20th Century Art	3
ARH 4470	Contemporary Art	3
Art History Ele	ective (upper division) 3
Studio Major		15-18
ART 4955	Thesis and Portfoli	0 3
Studio Electiv	es outside of major	12-21
Electives outs	ide of Visual Arts	
Department		12-21
•		

Minor in Visual Arts (18 semester

HOUFS)		
ARH 4450	20th Century Art	3
ART 3310	Drawing	
	or	
ART 3331	Figure Drawing	3
ART	Electives in Studio	
	(upper division)	12

Minor in Art H	istory (18 semester	
hours)		
ARH 4450	20th Century Art	3
ARH 4470	Contemporary Art	3
ART Studio Ele	ective (upper division)	3
ARH Electives	(upper division)	9

Course Descriptions

Definition of Prefixes ARH Art History, ART Art, HUM-Humanities

ARH 2050 Art History Survey I (3). A broad survey of the visual arts and architecture from the Paleolithic Period through the Middle Ages

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ARH 2051 Art History Survey II (3). A broad survey of the visual arts and architecture from the Renaissance through the Modem Age.

ARH 3009 Survey of Contemporary Art (3). A survey of the most recent developments in the fields of visual arts and architecture, through lectures, films and speakers. Open to all students.

ARH 3210 Early Christian and Byzantine Art (3). The art of Byzantine Empire from the early Christian period and the foundation of Constantinople to the Ottoman conquest and afterward (300-1500 A.D.). Prerequisite: ARH 2050 or permission of instructor.

ARH 3350 Baroque Art (3). European art of the 17th and early 18th centuries. Artists to be studied include Bernini, Caravaggio, Velasques, Vermeer, Rembrandt, Rubens, Poussin, La Tour, and Watteau. Prerequisite: ARH 2051.

ARH 4014 Hlatory of Decorative Arts (3). A survey of the more important and influential periods in history in the production of ceramics, fabrics, glass, jewelry and silversmithing. Slides, lectures, student research.

ARH 4131 Greek Art (3). Lectures, slides, research. The Art of Greece from the Bronze Age through the Classical Period.

ARH 4151 Roman Art (3). Lectures, slides, research. The Art of Ancient Rome from the Early Iron Age through the Late Roman Empire.

ARH 4310 Early Italian Renaissance (3). Lectures, slides, research. From the origins of Italian Renaissance in the Late Gothic Period to the Early 15th Century.

ARH 4312 Later Italian Renaissance (3). Lectures, slides, research. The Art of Italy in the later 15th and 16th Century.

ARH 4400 Primitive Art (3). An introduction to the art of widely dissimilar groups from areas on the margin or beyond the cultural influences of Europe, the Near East, India, China, and Japan. Emphasis will be placed on African, Oceanic, and North America Indian Art.

ARH 4430 Art and Politics (3). An investigation into the interrelationship between art and political issues, with emphasis on the 19th and 20th centuries.

ARH 4431 19th Century Painting (3). A study of Neoclassicism, Romanticism, Realism, and Impressionism. Artists to be considered include David, Ingres,

Gericault, Delacroix, Goya, Courbet, Manet, Degas, Monet, and Renoir.

ARH 4450 20th Century Art (3). Lectures, films, slides. A survey of European and American Art from 1890-1945.

ARH 4470 Contemporary Art (3). Lectures, slides, visitors and student research. A survey of art from 1945 to the present.

ARH 4552 Art of China and Japan (3). An introduction to the art of China to the Ming Dynasty and of Japan through the 18th century. The emphasis will be on painting and sculpture, with some ceramics and architecture.

ARH 4610 American Art (3). A survey of American painting from the Colonial period to the eve of World War I. Artists to be studied include Copley, West, Cole, Whistler, Sargent, Homer, Henri, and Bellows.

ARH 4650 Pre-Columbian Art (3). Slides, lectures, research. A survey of Pre-Colombian Art from approximately 2000 B.C. to 1500 A.D. of Mesoamerica. (Intermediate area from Honduras to Columbia and the Andes).

ARH 4652 Pre-Columblan Art of the Andes (3). A survey of Andean Pre-Colombian art and architecture. Basic characteristics of technique, style and iconography in relation to Andean socioeconomic and cultural patterns.

ARH 4670 20th Century Latin American Art (3). Lectures, films, slides. The Art of Central, South America and the Caribbean of the Twentieth Century.

ARH 4710 History of Photography (3). A chronological examination of the work of the world's most significant photographers, from photography's invention in the 1830's to the present.

ARH 4832L Art Gallery and Display (1-3). The study and participation of all aspects of Gallery operations, from daily operation to special exhibitions and events. Permission of Gallery Director.

ARH 4905 Directed Studies (VAR). A group of students, with the approval of the art faculty, may select a master teacher of theory, research or criticism in selected areas as lilm, painting, sculpture, architecture, crafts, art history, multi-media art, etc. Arrangements must be made at least a semester before course is offered. May be repeated.

ARH 4910 Research (VAR). Art history, criticism, and theory in areas not

covered by the present program and which the student wishes to study. Prerequisite: Permission of instructor. May be repeated.

ARH 4931 Women and Art (3). Women in the history of art; past, present and future. Slides, lectures, films, panels and discussions.

ARH 5907 Directed Studies (VAR). See ARH 4905.

ARH 5913 Research (VAR). See ARH 4910.

ART 1201C 2D DesIgn (3). Studio course introducing the basic art elements such as line, value, and color to develop the students vocabulary and awareness of two-dimensional potential in various media.

ART 1202C 3D Design (3). Studio course introducing the basic elements inherent in three-dimensional works of art. Shape, mass, balance, proportion, and scale are elements which will be explored.

ART 3111C Ceramics (3). A beginning course for art and non-art majors. Fundamentals of throwing, handbuilding, and glaze application. May be repeated.

ART 3112C Intermediate Ceramics (3). An in-depth study of ceramic forms concentrating on wheel techniques focusing on functional design, glazing and applicable firing processes. Prerequisite: ART 3111C.

ART 3115C Low Temperature Ceramics (3). An in- depth study of lowtemperature clays and glazes, and exploration of a variety of glazing and firing techniques, including lustres, residual salt, raku, white and red earthenware, etc. Prerequisite: ART 3111C.

ART 3133C Fabrics and Fibers (3). A creative approach to fabrics and fibers, using processes such as dyeing, embroidery, quilting, soft sculpture, batik, on and off loom weaving, etc. May be repeated.

ART 3150C Jewelry and Metals (3). A study of basic metal techniques and strengthening of three-dimensional design concepts for the beginner. The advanced student will explore the more difficult technical aspects of areas such as hollow ware, enameling, casting, and stone setting. May be repeated.

ART 3163C Glassblowing (3). A basic course in off- hand glass blowing,

concerned with preparing, forming, and finishing glass; understanding of glass as an art form: operation and maintenance of a glass studio. May be repeated.

ART 3310C Drawing (3), Drawing will be considered as an essential part of every art student's curriculum. Depending on his lower level work, a student will be encouraged to take at least one drawing course at the University. Off-campus studio work may be arranged. May be repeated.

ART 3331C Figure Drawing (3). Drawing from the model during assigned studio time. Open to all students. May be repeated. Prerequisite: ART 3310C.

ART 3401C Printmaking (3). With a knowledge of basic intaglio and relief printing, the student will explore specific media such as etching, lithography, silkscreen and other experimental techniques. May be repeated.

ART 3510C Painting (3). Stresses development of idea and technique in creating paintings. Demonstration, lecture, field trips and critiques included. Strong emphasis on individual development, Prerequisites: ART 1201C and ART 3310C. May be repeated.

ART 3702C Sculpture (3). With a background in beginning sculpture, the student will develop standards of excellence, both in concept and technique, with stress on individual expression. An equipped shop will be available to the student. May be repeated.

ART 3830C Color Theory (3). This course is designed to familiarize the student with the theory and principles of color as it relates to the arts Lecture. demonstration, and application through assigned projects will be included

ART 3831C Materials and Techniques (3). Instruction in the craft of painting. Demonstration and exercise in the following will be included color, pigments, ground, all major media, studio and equipment

A student majoring in Visual Arts may spend several semesters fully employed in industry in a capacity relating to the major. Prerequisite: Permission of chairperson.

ART 4114C Ceramics (3). The advanced student will explore all aspects of expression in clay and glaze. Students will be expected to be mostly selfdirected. Prerequisite ART 3111C, or permission of the instructor May be repeated.

ART 4116C Glaze and Clay Calculation (3). The study of the nature.

formulation and altering of ceramic glazes and clays.

ART 4133C Fabrics and Fibers (3). See ART 3133C.

ART 4151C Jewelry and Metals (3). See ART 3150C.

ART 4164C Glasablowing (3). See ART 3163C.

ART 4320C Drawing (3), See ART 3310C.

ART 4332C Figure Drawing (3). See ART 3331C.

ART 4402C Printmaking (3), See ART 3401C.

ART 4532C Painting (3). An advanced course concentrating on conceptual clarity and the realization of stylistic development. Group, individual criticism will be emphasized. May be repeated. Prerequisites: ART 3510C or equivalent. Suggested prerequisites: ART 3831C and ART 3803C.

ART 4703C Sculpture (3). See ART 3702C.

ART 4710C Figure Scuipture (3). To develop skills in representational structure and anatomy from the model and learn mold-making techniques. May be repeated.

ART 4906C Directed Study (VAR), A group of students, with the approval of the Visual Arts Department faculty, may select a master artist teacher and pursue a course of art study in selected areas such as graphic design, film. multi-media, environmental design. sound, etc. Arrangements must be made at least one semester before course is offered May be ropeated.

ART 4910C Research (VAR), Students may study or research an individual art project with an art faculty member. Complexity and amount of work will determine the number of credit hours granted May be repeated

ART 4949C Cooperative Education in Visual Arts (3). See ART 3949C

ART 4955C Thesis and Portfolio (3). Studio work in student's major area with major professor, resulting in a student exhibit Arrangements with major professor one semester before graduation Written thesis required Prerequisite 15 semester hours of studie majer (Fall and Spring only)

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ART 5125C Ceramics (3), See ART 4114C.

ART 5133C Fabrics and Fibers (3). See ART 3133C.

ART 5159C Jewelry and Metals (3). See ART 3150C.

ART 5165C Glassblowing (3). See ART 3163C.

ART 5340C Drawing (3), See ART 3310C.

ART 5341C Figure Drawing (3). See ART 3331C.

ART 5403C Printmaking (3). See ART 3401C.

ART 5580C Painting (3), A continuation of ART 4532C. May be repeated.

ART 5710C Figure Sculpture (3), See ART 4710C.

ART 5730C Sculpture (3). See ART 3702C.

ART 5907C Directed Study (VAR). See ART 4906C.

ART 5910C Research (VAR), See ART 4910C

PGY 3410C Photography (3). Beginning course in photography and basic darkroom work; introduction to the tradition of still photography Includes frequent critique of student work. May be repeated.

PGY 4420C Photography (3). An advanced course for majors and accomplished non-majors Includes demanding critique of student's work. May be repeated. Prerequisite: PGY 3410C or permission of instructor

PGY 5420C Photography (3). See PGY 4420 May be repeated. Prerequisite: PGY 3410 or permission of instructor.

Certificate Programs

American Studies Certificate Program

Darden A. Pyron, Director (History) Coordinating Committee Tucker Arnold (English) Lynn Berk (English) Eric Leed (History) Howard Rock (History) Donald Watson (English)

The American Studies Certificate Program provides the opportunity for

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students to examine the nature of American civilization through an interdisciplinary study of American history, literature, culture, and thought. The program provides a grounding in American literature and American history, a sampling of how each discipline approaches the study of American civilization, and an opportunity to follow the approaches of political science, anthropology, philosophy, and religion. Through a seminar in American studies, students will apply the insights of the various disciplines to problems of their own choosing.

The Certificate in American Studies is awarded with a bachelor's degree, or upon completion of Certificate requirements, to a student who already possesses that degree.

General Requirements: A total of seven courses chosen among the prescribed certification courses with a grade of 'C' or higher.

Specific Requirements:

AML 3011	Survey of American	
	Literature I	3
AML 3020	Survey of American	
	Literature ii	3

Two consecutive semesters chosen from

the following:	
AMH 3012	American History
	1600-17633
AMH 3100	American History,
	1607-1850
AMH 3200	American History,
	1850 to the present

3

Two electives chasen from the following:		
American Political	_	
Thought	3	
Anthropology of		
Contemporary Society	3	
American Philosophy	3	
Religion and Culture	3	
	American Political Thought Anthropology of Contemporary Society American Philosophy	

An appropriate American Literature course.

An appropriate American History course.

Consumer Affairs Certificate Program

Milton L. Blum, Director (Psychology)
Advisory Committee

Yao Apasu (Marketing and Environment)

Paul W. Foos (Psychology)
Greta Howard (Apparel Studies)
Shearon Lowery

(Sociology/Anthropology)
Samuel Shapiro (Statistics)

The Certificate Program in Consumer Affairs provides a sound educational base for those dealing with consumer affairs, be they buyers, sellers, or users of products and services.

Courses leading to the Certificate

can serve those pursuing careers in consumer affairs, as well as provide personal benefit to individuals in their role as consumers.

The number of issues and conflicts involving consumers, business, government, and labor demand study and research so that more appropriate resolutions can be achieved. The Certificate Program is intended to provide business, government, education, industry, and labor with a resource for educating selected personnel in a broad range of subject matter related to consumer affairs. For more information on the program, please contact the director in ACI 100, North Miami Campus, 945-5867. Required Courses

The Certificate will be awarded upon satisfactory completion of six courses from among those listed below. Students are admitted to the program provided proper application has been made to the director.

Group I: (Choose three courses)

Consumer Resources	3
Economics, Man and	
Society - Micro	3
Environmental	
Resources and	
Pollution	3
Consumer Behavior	3
Consumer Psychology	3
Man, Society, and	
Technology	3
se three courses)	
Consumer and	
Technology	3
Consumer Legislation	3
Energy Flow in Natural	
and Man-made	
Systems	3
Food and the	
Consumer	3
Managerial Decision	
Making	3
Behavioral Science in	
Management	3
	Society - Micro Environmental Resources and Pollution Consumer Behavior Consumer Psychology Man, Society, and Technology ose three courses) Consumer and Technology Consumer Legislation Energy Flow in Natural and Man-made Systems Food and the Consumer Managerial Decision Making Behavioral Science in

Note: Students may substitute an independent research project working with any professor provided the professor approves the request and final approval is obtained in writing from the Program Director.

Experimental Consumer Psychology 2

Experimental Consumer

3

3

Psychology Lab

Mass Culture

Environmental Studies Certificate Program

SOP 4649

SOP 4649L

SYP 4321

J. Parker, Director (Chemistry) Coordinating Committee J. Gottlieb (Political Science) J. Huchingson (Philosophy and Religious Studies)

S. Koptur (Biology)

The Certilicate Program in Environmental Studies is designed to provide students in various majors with the unique perspective of interdisciplinary ecological education to both enrich and expand the breadth of their primary training. The Certificate seeks to provide participants with an analytic basis for understanding the milieu of local and global environmental problems and processes.

The program requires no prerequisite and is complementary to majors in all disciplines and schools at the University. This certificate is appropriate also for persons who already have a degree but would like to increase their knowledge of contemporary environmental issues.

General Requirementa: Six courses as follows:

1		
EVR 3010	Energy Flow in Natur	al
	Systems	3
EVR 3011	Environmental	
	Resources and	
	Pollution	3
EVR 3013C	Ecology of	
	South Florida	4
	or	
EVR 4211	Water Resources	3
EVR 4311	Energy Resources	3
EVR 4231	Air Resources	3
2		

Environmental Politics and Policies

Cultural Ecology

Primate Behavior and

3. Two courses from the following, at least one of which must be from the Social Sciences or Humanities:

PUP 4203

ANT 3403

ANT 4552

GEO 3510

GLY 3850

INR 3043

	Ecology
BOT 2010C	Plant Biology
ECP 3302	Introduction to
	Environmental
	Economics
ECP 4314	Land and Resource
	Economics
ENT 3004	General Entomology
EVR 3013C	Ecology of South Florida
EVR 4211	Water Resources
EVR 4231	Air Resources
EVR 4311	Energy Resources
EVR 4905	Independent Study
EVR 5907	Research and
	Independent Study
EVR 5935	Special Topics
EVR 5936	Topics in Environmental

Studies

Earth Resources

Environmental Geology

Population and Society

INR 4054	World Resources,
	World Order
MCB 4603	Microbial Ecology
PCB 3043	Ecology
REL 3492	Man and Nature
SOP 4712	Environmental
	Psychology
URP 4149	Planning and Humar
	Ecology
ZOO 3892C	Biology of Captive
	Wildlife
ZOO 4423	Herpetology

Total Credit Hours:

18-19

Ethnic Studies Certificate Program

John F. Stack, Jr., Director (Political Science)

Coordinating Committee

Ralph S. Clem (International Relations) Anthony P. Malngot

(Sociology/Anthropology) Mark D. Szuchman (History)

The College of Arts and Sciences offers the student a program in ethnic studies. in recognition of the place ethnic studies enjoys in the social sciences and humanities, and the importance of ethnic studies in today's world. The Program seeks to establish a preper balance between its academic goals and objectives and the on-going concerns of the University's local and international constituencies. The Program contains four specialized areas: Black Studies. Jewish Studies, Cuban Studies, and Comparative Studies.

The Certificate in Ethnic Studies is awarded with a bachelor's degree or upon completion of Certificate requirements, to a student who already possesses that degree. The Certificate will specify the area of concentration chosen by the student.

A student may acquire the Certificate in Ethnic Studies by fulfilling the following requirements:

General Requirements: A minimum of six courses with a grade 'C' or higher. Courses in both the 'Core' and 'Specialized' areas (indicated below) must be taken from at least two different departments.

A maximum of one course in a relevant language will be accepted A maximum of two courses of independent study will be accepted. The Program Director must approve the student's overall plan and all special topics courses must be appreved by Certificate advisors in each area.

The Program is especially eager to encourage programs of study abroad and field work in general. Credit for such programs will be awarded on an individual basis after evaluation by the Director and the Coordinating Committee, but in no case will it consist of more than three courses towards the Certificate.

Specific Requirements: A core of a minimum of two to three courses in a theoretical and conceptual nature in the area of ethnic studies

A minimum of three to four specialized courses in one of the four distinct areas: Black Studies, Jewish Studies, Cuban Studies, Comparative Studies.

Core Courses: SYD 4700 or ANT 4451: Minorities: PUP 4314; Ethnic Politics; INR 4084: Ethnicity in World Politics; INR 4024: Ethnicity and Nationality; ECP 3144: Economics of Race and Sex Discrimination: SOP 4444: Attitudes and Ethnicity.

Specialized Courses: (Note: This is not an exhaustive list; students should consult with the Director of the program on current offerings.)

Specialized Courses in Cuban Studies ECS 4430 The Economic Development of Cuba 3 FOW 4390 Genre Studies (with reference to Cuban Literature) 3 INR 3246 International Relations of the Caribbean Cuban History LAH 3930 3 SYD 4630 Latin American and Caribbean Social Structures SYA 4124 Social Theory and Third World Innovations

Specialized Courses in Black Studies AMI 5212 Major American Literary **Figures** 3 ANT 4315 Afro-American Anthropology 3 ANT 4352 Area Studies 3 LIT 4203 Regional Literature in English LIT 4930 Special Topics 3 MUH 3116 3 Evelution of Jazz SYD 4701 Social Conflict in Multi-Ethnic Societies

Specialized Courses in Jewish Studies GEA 3630 Population and Geography of the Middle East **INR 3274** International Relations of the Middle East POS 4147 Political Urban Jewish Leadership REL 3224 The Prophets 3

Gerontological Studies Certificate Program

Gordon E. Finley, Director (Psychology) Coordinating Committee Reba L. Anderson (Occupational Therapy)

Leon A. Cuervo (Biological Sciences) Charles A. Frankenhoff (Health

Services Administration) Shearon A. Lowery (Sociology/Anthropology) Martha Pelaez (Southeast Florida Center on Aging)

Florence Safford (Social Work)

The Certificate Program in Gerontelogical Studies is an undergraduate, academic certificate program designed to complement the student's major area of study The goals of the program are: (1) to stimulate interest in the study of aging; (2) to provide an introduction to the field of gerontology from a multidisciplinary perspective; (3) to provide foundation courses for advanced study in gerontology; and (4) to provide students seeking employment upon graduation with a sound background which will make them attractive to employers. The State of Florida has the largest percentage of persons over 65. Demographic projections indicate that net only will Florida continue to increase its percentage of older persons, but se will the nation as a whole. Thus, it has become imperative that gerontological knowledge be increased and shared. This is critical, both for individuals to function as informed citizens and fer enhanced gerontological teaching, research, and service.

The present certificate program seeks to meet these needs by previding a multidisciplinary appreach to the study of aging. The Certificate in Gerontological Studies is awarded with a bachelor's degree, or on completion of Certificate requirements to a student who already possesses that degree. Interested students should meet with the director early to plan an individualized program to meet the student's educational or occupational goals.

Certificate Requirements: (16-17) 1 A minimum of six courses must be completed with a grade of 'C' or higher in each course

Courses must be taken from at least three different disciplines.

3 Electives must be taken from three different categories listed below 4. Up to two gerontelogically relevant

courses taken elsewhere may be accepted by the director

5 Students should contact the director during registration for a list of certificate courses effered each semester

Required Courses (8) DEP 4464 Psychology of Aging SYP 4730 Sociology of Aging 3 PCB 3241 Physielogy of Aging Elective Courses (8-9)

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Aging in the Co DEP 3000	ontext of the Life-Span Human Growth and Development	3
FAD 2230	Family Life Cycle	3
Crime CCJ 3033	Crime and the Elderly	3
Death and Dyir SYP 4740 PHM 4050	ng Sociology of Death Philosophy of Death	3
Health and Ref OTH 3160 PHT 3400 SOP 4834	nabilitation Adaptive Living Skills Emotional Aspects of Physical Disability Psychology of Health and Illness	2 3
Nutrition HUN 2201 HUN 4403	Principles of Nutrition Life Cycle Nutrition	3
Program Admir GEY 3002 Gerontology HSA 4113 Health Care	nistration Issues and Trends in Issues and Trends in	3

Supervised Research/Practicum in Gerontology: (3) Students wishing to undertake an independent research project or an independent practicum in gerontology should: First obtain the collaboration of a laculty sponsor, and, second, obtain the approval of the certificate director prior to beginning the project by submitting a one page proposal. Credit for the project will be obtained under the appropriate 'independent studies' course in the laculty advisor's department.

International Studies Certificate Program

(International Relations)
Advisory Council
Robert Farrell (Ed. Leadership)
Clair McElfresh (Music)
Laurence Miller (Library)
Luls Sales (Criminal Justice)
Mark Rosenberg (Political Science)
Wunnava Subbarao (Electrical
Engineering)

Charles G. MacDonald, Director

International Studies constitutes an important locus for the University. The International Studies Program promotes an interdisciplinary approach to the study of transnational phenomena and awards a Certificate to degree and non-degree students who complete successfully its requirements (stated below). Students pursuing a bachelor's degree may take the Certificate Program to complement their major disciplinary area of study. Those not seeking a degree may take the Certificate Program

to obtain a broad and systematic introduction to International Studies. Students interested in this Program should consult with the Director of International Studies.

Program: (Minimum of 18 credits)
At least one of the following courses in
International Politics/Relations:

INR 2001 Introduction to International Relations Dynamics of World Politics
INR 3003 Foundations of International Relations
At least one of the following courses in International Economics/Business:
MAN 3602 International Business

ECO 4703 International Economics
Three semester hours of independent study under faculty supervision
during which a research paper will be
written. The independent study and the
resulting paper must be approved by the
program Director. This paper will be discussed in a joint faculty-student seminar.

World Economy

ECO 4701

A minimum of nine semester hours of coursework from courses identified by the program. A list of such courses will be circulated to all students in the program at the start of each semester. Basic competency (two-semester college level) in a language other than English. Language courses where necessary, will not be included as courses within the 18-semester hour coursework requirement.

A minimum grade of 'C' in each course taken in the program. Courses must be taken in at least three different departments.

Prerequisites that may be required for courses in the program will not be included as courses within the 12-semester hour coursework requirement.

Latin American and Caribbean Studies Certificate Program

Mark B. Rosenberg, Director (Political Science)

Douglas Kincald, Associate Director (Sociology/Anthropology)

Latin American and Caribbean Studies represents one way in which the University fulfills its commitment to furthering international understanding. The program in Latin American and Caribbean Studies encourages students to take an interdisciplinary approach to this important area by awarding a Certificate to both degree and nondegree students who successfully complete the Certificate requirements (see below). For students pursuing a bachelor's degree, the Certificate Program should be understood as a

complement to the student's regular major area or discipline of study. For non-degree students, the Certificate represents an opportunity to gain a better understanding of Latin America and the Caribbean without pursuing a full course of study at the university. Students who are interested in the Certificate Program should consult directly with the Associate Director of the Latin American and Caribbean Center (LACC). Appointments may be scheduled by calling 554-2894, or in person at PC 237.

A summer program in the Caribbean offers an exciting opportunity to gain six credits toward the Certificate. Sponsored by the Florida - Caribbean Institute. This three-week program features study at the University of the West Indies in Barbados with visits to St. Kitts and Nevis. In addition, LACC has placed certificate students in programs sponsored by the Organization of American States in Argentina and Costa Rica for summer study.

An important component for the Latin American and Caribbean Studies program at the University is the Library. In the recent past, the Latin American and Caribbean acquisitions program has concentrated on establishing a sound resource base for undergraduate research and study. In addition, community and federal support has allowed the acquisition of a number of specialized collections, particularly from Colombia, Cuba, and the Central American nations. Traditional written sources are supplemented by a film collection of over one hundred titles, as well as a number of Latin American art works and slides. The Library also receives a large number of periodicals and research reports from Latin American and Caribbean institutions.

Certificate Requirements: (18)
A minimum of 15 semester hours with a grade of 'C' or higher in courses certified by the program. Courses must be taken from at least three different disciplines. A requirement of three semester hours of independent study under faculty supervision during which a research paper will be written.

The introductory language sequence in

The introductory language sequence in Spanish, Portuguese, or French, or exemption through demonstrated proficiency as determined by the Department of Modern Languages. The language sequence will not count toward the 18 semester hour requirement.

The following courses fulfill Certificate requirements. These courses should be understood as a partial list; students should consult with the Associate Director about current course offerings.

College	of Arts	and	Sciences / 145

			1 411 2122	The Formation of Latin		SPW 5286	Contemporary Spanish
Anthropology			LAH 3132	America	' 3	31 11 3200	American Novel 3
ANT 3144	Prehistory of the	3	LAH 4433	Modern Mexico	3	SPW 5358	Prose and Poetry of
ANT 3251	Americas Peasant Society	3	LAH 4474	Topics in Caribbean			Jorge Luis Borges 3
ANT 3403	Cultural Ecology	3		History	3	SPW 5359	Poetry of Pablo Neruda 3
ANT 3435	The Individual in		LAH 4482	Cuba from Bourbons to Castro	3	SPW 5576	Spanish American
	Anthropology	3	LAH 4511	Order and Revolution	3	31 11 3370	Modernism 3
ANT 4224	Tribal Art	3	LAIT 4311	in Argentina	3		
ANT 4324	Mexico	3	LAH 4932	Topics in Latin			nd Religious Studies
ANT 4328	Maya Civilization Latin America	3		American History	3	PHH 3042	Latin American
ANT 4332 ANT 4334	Comparative Latin	3	HIS 4450	Slavery in the	_		Philosophies 3
ANT 4554	American Cultures	3		Americas	3	REL 4481	Contemporary Latin American
ANT 4340	Cultures of the		international	Duelnose			Religious Thought 3
	Caribbean	3	MAN 3602	International Business	. 3		Trongroup / Trongrit
			MAN 4600	International	-	Political Scie	nce
Economics				Management	3	CPO 3303	Government and Politics
ECS 3402	The Political Economy		MAN 4610	International and		000000	of South America 3
E00.0440	of South America Economics of Central	3		Comparative Industria	il 3	CPO 3304	Theories of Latin American Politics 3
ECS 3440	America	3	MAN 6635	Relations International Business	-	CPO 3323	Government and Politics
ECS 4013	Economic	•	MAN 6633	Policy	3	01 0 0020	of the Caribbean 3
200 4010	Development	3		Tolloy	Ŭ	CPO 3333	Government and Politics
ECS 4403	The Latin American		International	Relations			of Central America 3
	Economies	3	CPO 3326	Population and		CPO 4005	Topics in Comparative
ECS 4404	Economic Integration-	•		Geography of the	_		Politics 3
ECC 4400	Latin America The Economic	3	0540400	Caribbean	3	CPO 4055	Authoritarianism 3 Topics in Caribbean
ECS 4430	Development of Cuba		GEA 3400	Population and Geography of Latin		CPO 4327	Politics 3
	Past and Present	3		America	3	CPO 4360	Cuban Politics 3
ECS 4432	Economic Integration -	-	INR 3245	International Relations		INR 4244	Latin America in
	Caribbean	3		of Latin America	3		International Politics 3
ECS 4433	Economics of the		INR 3246	International Relation			
F00 4700	Caribbean	3		of the Caribbean	3	Psychology	Carial Bauchalagu in
ECO 4733	Multinational Corporation	3	INFI 4247	Caribbean Regional Relations	3	SOP 4004	Social Psychology in Latin America 3
ECO 5710	The World Economy	3		neiations	3		Latin America 0
2000	,,,,,		Marketing			Sociology	
Education			MAR 4243	International		SYD 4360	Latin American and
EDF 5710	National Education			Marketing	3		Caribbean
	Systems:		MAR 4244	Export Marketing	3	CVD 4640	Social Structures 3
	A Comparative	3	MAR 4713	Cases in Marketing	3	SYD 4610	Area Studies (Latin American and/or
EDE 5700	Analysis Latin American	3		Management	3		Caribbean) 3
EDF 5720	Education		Modern Lang	nuaces		SYD 4124	Social Theory and Third
	A Historical and		FRE 3500	Civilization I (Latin		-	World Innovations 3
	Contemporary			American course)	3	SYD 4701	Social Conflict in Multi-
	Overview	3	SPN 3500	Civilization I (Latin	•		Ethnic Societies 3
EDF 5780	Intercultural Education	1:	CDC 4501	American course)	3	Visual Arts	
	National and International		FRE 4501	Civilization II (Latin American course)	3	ARH 4670	20th Century Latin
	Perspectives	3	SPN 4501	Civilization II (Latin	Ü	71111 4070	American Art 3
EDG 6425	Macro-Micro Planning			American course)	3		
	in Education	3	FRW 3520	Prose and Society (La	atin		
				American course)	3		nslation and
Geology			SPW 3520	Prose and Society (La		Court Inte	
GLY 3157	Elements of Caribbea		SPW 3371	American course) The Latin American	3	Certificate	Program
0114 4400	Geology	3	3F 11 33/1	Short Story	3	This certificat	e provides practical and
GLY 4190	Caribbean Earth Sciences Seminar	3	SPW 4304	Latin American	_	theoretical ex	perionce to prepare the
GLY 4792	Caribbean Mineral	0		Theatre	3		nployment at entry level in
GL1 4/32	Resources Field Trip	3	SPW 4351	Spanish American			slation and interpretation
GLY 5620	Caribbean Stratigraph		ODW 1056	Poetry I	3		urriculum doos not train ir work as conference
	Micropaleentology	3	SPW 4352	Spanish American Poetry II	3		ut provides a good
GLY 5793	Canbbean Shallow-	2	SPW 4364	The Spanish America			and the experience needed
	Marine Environments	3	0 4004	Essay	3	for further stu	idy in both legal translation
History			SPW 5237	The Traditional Spani			erpreting Through its
LAH 2092	The Latin Americans	3		American Novel	3	academic tra-	ck, it offers complementary

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studies for the practitioner who wants to strengthen his or her competence in the field. The program consists of 30 semester credit hours.

Prerequisites:

SPN 3302	Review grammar and Writing II	3
ENC 3034	Problems in English Composition	3

No credits allowed. These prerequisites may be fulfilled by passing a qualifying examination.

C--- C------ (12)

Core Course	38: (12)	
SPT 3800	Introduction to	
	Translation Skills	3
SPT 3812	Introduction to Oral	
	Translation	3
SPT 4801	Translation Practica	3
SPT 4802	Practica in Oral	
	Translation and	
	Terminology	3

Required Program Courses (12)

SPT 4803	Practica in Legal	
	Translation	3
SPT 4804	Practica in Legal	
	Interpretation	3
SPT 4940	Judicial Translation/	
	Interpretation	
	Internship	3
SPT 4813	The Interpreter and	
	Language	3

	Internship	3
SPT 4813	The Interpreter and	
	Language	3
F141 (C)		
Electives: (6) BUL 4100	Legal Environment of	
BUL 4100	Business	2
DIII 4444	Business Law I	3
BUL 4111 BUL 4112	Business Law II	3
CCJ 3011	The Nature and Cause	-
003 3011	of Crime	3
CCJ 3020	An Overview of	3
003 3020	Criminal Justice	3
0010101	Law Enforcement	3
CCJ 3101		3
CCJ 3290	System Judicial Policy Making	3
CCJ 3290 CCJ 4280	Law and Criminal	3
003 4200	Justice	3
CCJ 4331	Probation, Parole and	3
000 4331	Community Program	3
CCJ 4662	Criminal Justice and th	
CCJ 4002	Minority Community	
INR 3403	International Law	3
ORI 3800	Basic Oral	J
ONI 3600	Interpretation	3
POS 3283	The Judicial Process	3
POS 3603	Constitutional Law:	J
FUS 3003	Powers	3
POS 3604	Constitutional Law:	J
1033004	Limitations	3
POS 4284	Judicial Behavior	3
POS 4493	Politics of Judicial	_
100 4400	Administration	3
RMI 4015	Principles of Insurance	3
SPC 2600	Public Speaking	3 3
SPN 3415	Communication Arts	3
01 11 04 10	o o i i i i o i i o i i o i i o i i o i i o i i o i i o i i o	~

lectives may be ch	nosen from	offerings
the departments	of	

in the departments of
Sociology/Anthropology, Computer
Science, Economics, International
Relations, Modern Languages, and
Political Science by securing the
approval of the Director of the
Translation and Interpretation Program.

Linguistics Studies Certificate Program

Lynn Berk, Director (Enalish)

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In addition to an M.A. in Linguistics, the University offers a Certificate acknowledging that a student has demonstrated competence in course work pertaining to the study of linguistics. This Certificate is designed to meet the needs of those who have a general interest in linguistics studies, as well as those for whom work in linguistics would assist in career planning or advancement. Both undergraduate and graduate students

Linguistic Studies by fulfilling the following requirements: The successful completion of at least six courses in linguistics or linguisticsrelated courses. These courses are listed below. Courses must be selected from at least

A student can acquire a Certificate in

are eligible to earn the certificate.

two different departments. Students should consult a Certificate advisor in selecting courses. With the advice of the Coordinating Committee, the student is encouraged to

language other than his or her native language. In addition to the requirements noted above, all of the requirements for obtaining a bachelor's degree from the

attain some degree of proficiency in a

must possess a bachelor's degree from another institution. A Coordinating Committee representing various fields, will advise students and grant the Certificate.

University must be met, or the student

A student wishing to earn a Linguistics Studies Certificate will choose courses from the following list of offenings

Required Courses

LIN 3010 Introduction to General

Linguistics LIN 3013 **Enalish Linauistics**

SPN 3733

Introduction to General Linguistics (taught in Spanish) or

3

FRE 3700 Introduction to General Linguistics (taught in French)

LIN 4341 Modern English Grammar 3 FRE 4800 Contrastive Morphology

SPN 4800 Contrastive Morphology SPN 4802 Contrastive Syntax

Four of the following courses: (12) LIN 4612 Black English LIN 4400 Applied Linguistics

(English) LIN 4341 Modern English Grammar I IN 4142 or LIN 5146 Historical and Comparative Linguistics

LIN 6342 Advanced Syntax LIN 5206 **Phonetics** LIN 4221 LIN 6222 General Phonology

LIN 4330 or LIN 5331 General Morphology and Syntax

LIN 5107 History of English Language LIN 5405 Contrastive Analysis LIN 4801 or

LIN 6805 Semantics LIN 6602 Language Contact FOL 3732

or LIN 5735 Romance Linguistics FRE 3705 Applied Linguistics (in French) FRE 3780 French Phonetics FRE 3820 Dialectology (in French)

FRE 3840 History of the French Language FRE 4791 Contrastive Phonology (French/English) FRE 4800 Contrastive Morphology (French/English)

LIN 5565 Studies in Bilingualism (French/English) FRE 5735 Special Topics in French Linguistics

LIN 3200 or

FRE 4562

or

LIN 5206 **Phonetics** LIN 3400 Applied Linguistics (Modern Languages) Dialectology LIN 3610 Contrastive Phonology LIN 4226

In addition to these subjects, the

Criminology

SYP 3520

3

3

Spanish for Business

Civilization and Culture

Special Topics in

(Prorequisite

SPN 3500)

LIN 4333	Contrastive Morphology	completed the	e requirements listed		Core Courses	: (12)	
LIN 4418	Problems in Language	below.		SPT 3800	Introduction to		
	Learning					Translation Skills	3
LIN 5600	Introduction to	Certificate Re	quirements		SPT 3812	Introduction to Oral	_
	Sociolinguistics		er Division Preparation.	:		Translation	3
LIN 4620	ū	Two semeste	rs of inorganic chemistr	У	SPT 4801	Translation Practica	3
or		with laborator	γ.	•	SPT 4802	Oral Translation	
LIN 5625	Studies in Bilingualism					Practica	3
LIN 5435	Research Methods in	Required Cou	ırses: (11)				
	Linguistics	OCB 2003	Introductory Marine		Required Cou	rses: (9)	
LIN 5934	Special Topics in		Biology	3	SPT 4803	Practica in Legal	
	Linguistics	OCB 2003	Introductory Marine			Translation	3
POR 3930	Special Topics in		Biology Lab	1	SPT 4809	Practica in Medical	
	Portuguese		or			Translation	3
	Language/Linguistics	OCB 4730	Techniques in Biologi	cal	SPT 4807	Practica in Business	
SPN 3705	Applied Linguistics (in		Oceanography	1		Translation	3
	Spanish)	GLY 4730	Marine Geology	3	SPT 4808	Practica in Technologic	
SPN 3780	Spanish Phonetics	GLY 4730L	Marine Geology Lab	1		Translation	3
SPN 3820	Dialectology (in Spanish)	OCE 3014	Physical Oceanograp	hy3	SPT 4805	Translation in	
SPN 4840	History of the Spanish					Communication Media	13
	Language		o of the following				
SPN 4562		OCC 3002	Chemical Oceanogra	phy		ctives: One course from	1
or		3			the following		
LIN 5565	Studies in Bilingualism	OCC 3002L	Chemical Oceanogra		ENC 3343	Technical Writing	3
0011 1700	(Spanish/English)	700	Lab	1	ENC 4242	Scientific Writing	3
SPN 4790	Contrastive Phonology	ZOO 3253	Marine Invertebrate	_	SPN 3500	Culture I	3
0011 4000	(Spanish/English)	700 0050	Zoology	3	SPN 3415	Communication Arts	3
SPN 4800	Contrastive Morphology	ZOO 3253L	Marine Invertebrate				
ODN 4000	(Spanish/English)	000 5005	Zoology Lab	1		Two Courses from the	
SPN 4802	Contrastive Syntax	OCB 5635	Coral Reel Ecology	3	following		
SPN 4822	Hispanic-American	OCB 5635L	Coral Reel		ACG 3021	Accounting for	_
CDN 4004	Sociolinguistics	700 5005	Ecology Lab	1	000 0170	Decisions	3
SPN 4824	Dialectology of the	ZOO 5625	Biology of	_	COP 2172	Programming in	_
SPN 4930	Spanish Caribbean	700 ECOEL	Crustaceans	3	F00 00040	BASIC	3
		ZOO 5625L	Biology of		ECO 30213	Economics, Man and	_
or SPN 6930	Special Topics in	MCB 5735	Crustaceans	1	ECO 2011	Society, Micro	3
3F N 0930	Spanish Linguistics	MCB 5735L	Marine Microbiology	3	ECO 3011	Economics, Man and	
LIN 4701	Psychology of Language	NICE 3/33L	Marine Microbiology Lab	1	ENC 3200	Society, Macro	3
LIN 4710	r sychology of Language		Lau	'	ENC 3200	Business Letters and	3
or Or		All courses ro	quire a grade of 'C' or		HUN 2201	Reports	
LIN 5715	Language Acquisition	higher.	quire a grade or C or		INR 3403	Principles of Nutrition International Law	3
PHI 4221	Philosophy of Language	riigitet.			INR 4033	International	3
PHI 4222	Philosophy of Dialogue				INT 4000	Communications	3
MHF 4302	Mathematical Logic	Translatio	n Studies Certific:	ate	JOU 3100	News Reporting	3
10111 4502	Mathematical Logic	Program			MAN 3602	International Business	
		This professio	nal certificate is design	a d	MAN 3701		
Marine Scie	ence		nts in the techniques an		MRE 3001	Business and Society Medical Terminology	3
Certificate			for the translation (E-S		MRE 4301	Fundamentals of	3
	•	S.F.) of routing	e documents and gener	anu al	WINE 4501	Medical Science	3
	rg, Director (Biological		ce. It also provides the	aı	POS 2002	Introduction to Politics	
Sciences)					RTV 4101	Writing for the	
Coordinating Committee		general background and introductory professional courses needed for luture			1114 4101	Electronic Media	3
	logical Sciences)	study or work in the field. The program			RTV 4302	Broadcasting for	0
	ogical Sciences)		semester hours		1117 4002	Reporting	
	(Biological Sciences)		cademic track, the			(Prerequisite	
	(Physical Sciences)	certificate program offers				JOU 3100)	3
L. Quackenbush (Biological Sciences)		complementary studies for the			SYG 3002	The Basic Ideas of	
The Marine Sc.	ience Program is	practitioner who wants to strengthen his				Seciety	3
	d to most the peads of students Of her competence in these fields				CDN 4440	Coopiet for Queinose	

or her competence in these fields

Writing !!

Prerequisites

SPN 3302

ENC 3200

whose interests are geared to the traditional natural sciences and

environmental sciences. The course

designed to meet the needs of students

work is intended to prepare students for

teaching in secondary schools, work in

research and government laboratories,

and preparation for edvanced study in

awarded to both degree and non-degree

seeking students who have successfully

Marine Science The certificate is

No credits allowed. These prerequisites may be fulfilled by passing a qualifying examination.

Review Grammar and

Business Letter and

Reports 3 In addition to these subjects, the free electives may be chosen from the offerings in the departments of Sociology/Anthropology, Communication, Computer Science,

SPN 4440

SPN 4501

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Economics, International Relations. Modern Languages, and Political Science by securing the approval of the Director of the Program.

Tropical Commercial Botany Professional Certificate Program

David Lee, Director (Biological Sciences) Coordinating Committee George Dalrymple, (Biological

Sciences) Kelsey Downum, (Biological Sciences) Suzanne Koptur, (Biological Sciences)

Steven Oberauer, (Biological Sciences) Jennifer Richards, (Biological

Helen Correll, (Fairchild Tropical Garden)

Jack B. Fisher, (Fairchild Tropical Garden)

William Houghton, (Fairchild Tropical

Knut W. Norstog (Fairchild Tropical Garden)

John Popenoe, (Fairchild Tropical Garden) Robert Sanders, (Fairchild Tropical

Garden)

This Certificate Program provides background in the plant sciences, principally for those with practical experience in horticulture. The curriculum is designed to give solid information on the plants being grown: their anatomy and morphology, reproduction, taxonomy, development and physiology. This background should prepare students for work in the more technical aspects of horticulture in South Florida. Those fulfilling its requirements, along with a B.S. degree in Biological Sciences or Environmental Studies, would have excellent preparation for

Horticulture.

following (6-8)

post-graduate work in Botany or

Certificate Requirements Lower or Upper Division Preparation Two semesters of college-level chemistry

Mathematics through College Algebra (such as MAC 2132) Practical Horticultural Experience

Required Cou	raea: (16)	
BOT 2010C	Plant Biology	4
BOT 3353C	Morphology of	
	Vascular Plants	4
BOT 4504	Plant Physiology	3
BOT 4504L	Plant Physiology	
	Laboratory	1
BOT 3723C	Taxonomy of Tropical	
	Plants	4
Electives: Two	courses from the	

BOT 3810	Economic Botany	3
BOT 4314C	Plant Development	4
PCB 3043	Ecology	3
PCB 3043L	Ecology Lab	1
EVR 3010	Energy Flow in Natura	al
	and Man-Made	
•	Systems	3
ENY 3004	General Entomology	3
ENY 3004L	General Entomology	
	Lab	1
ACG 3021	Accounting for	
	Decisions	3
ARC 3127C	Graphic	
	Communication	3
LAA 3370C	Landscape Design I	3
	22	-24
All	autico a acada at ICI as	

All courses require a grade of 'C' or higher.

Western Social and Political Thought Certificate Program

Brian Nelson, Director (Political Science) Coordinating Committee Charles Elkins (English)

Steven Fjellman (Anthropology/Sociology) Bruce Hauptli (Philosophy/Religion) Antonio Jorge (International Relations)

Barry Levine (Sociology)

Eric Leed (History)

The Certificate Program provides interested students with a broad background in the history of western social and political thought. As such, the Certificate student will be expected to take courses from a variety of disciplines and at least three tutorials. Each tutorial will concentrate on one prescribed book which will be the same for all students. At the beginning and end of each semester the students will meet as a group with the instructors in the Program to discuss the different perspectives which they have developed on the common subject matter.

Course Requirements: A total of five courses in prescribed Certificate courses and three tutorials with a grade of 'C' or higher. Four courses in three historical eras (Ancient-Medieval, Modern, and Contemporary) from at least three different departments (Economics, English, History, Philosophy/ Religion, Political Science, Sociology/ Anthropology). IDS 4920, Liberal Studies Colloquium on 'Visions of Order and Revolt'. (Under exceptional circumstances another course may be substituted with the advisors approval). Three independent study tutorials taken in three semester blocs.

Admission to the Program: Admission to the program will be by invitation from a

member of the certificate faculty, or by request from the student. In either case, final approval for admission rests with the Coordinating Committee of the Certificate Program. GPA, intellectual interests, and academic potential will be the criteria considered for admission to the Program.

Advising: The student's advisor will be the designated Certificate representative in his or her major. It is the function of the Certificate advisor to aid students in the selection of relevant courses, to insure that all Certificate requirements have been completed before graduation, and to assign the tutorial grades. Students who are majoring in a discipline other than those listed will be advised by the Director of the Certificate Program or, by mutual agreement, by another advisor of the students choice. Students are responsible for contacting their advisor on the progress of their coursework and other matters related to completion of Certificate requirements.

Course Listing: The following list may be modified from time to time. The student should consult with his or her advisor about current course offerings.

3

3

3

3

3

Ancient-Medie	vai	
HIS 3001	Introduction to History	3
HUM 3211	Ancient Classical	
	Culture and Civilization	3
LIT 4403	Literature Among the	
	Arts and Science ¹	3
PHH 3100	Ancient Philosophy	3
PHH 3200	Medieval Philosophy	3
PHM 3200	Social and Political	
	Philosophy ²	3
PHM 4400	Philosophy of Law ¹	3
POT 3013	Ancient and Medieval	
	Political Theory	3
POT 4930	Topics in Political	
	Theory ²	3
POT 5934	Topics in Political	
	Theory 2	3

Modern

ENL 4320	Shakespeare's	
	Histories	3
ENL 4321	Shakespeare's	
	Comedies	3
ENL 4322	Shakespeare's	
	Tragedies	3
EUH 3142	Renaissance and	
	Reformation	3
EUH 4453	French Revolution and	
	Enlightenment	3
EUH 4286	Topics in European	
	Annual Linkson	2

EUH 4286	lopics in European	
	Intellectual History	
LIT 3200	Themes in Literature	
LIT 4403	Literature Among the	
	Arts and Sciences	
PHM 3200	Social and Political	
	Philosophy1	

PHM 4400 Philosophy of Law1 POT 3054 Modern Political Theory I

POT 3204	American Political	
	Thought 1	3
POT 4930	Topics in Political	
	Theory 2	3
POT 5934	Topics in Political	
	Theory ²	3
Contemporar	ry	
AMH 3331	American Intellectual	
	History ¹	3
ANT 3086	Anthropological	
	Theories	3
ECO 3303	The Development of	
	Economic Thought	3
ECO 4321	Radical Political	
	Economy	3
EUH 4286	Topics in European	
	Intellectual History	3
LIT 4403	Literature Among the	_
	Arts and Sciences ²	3
PHM 3200	Social and Political	_
	Philosophy ¹	3
PHM 4203	Contemporary Social	_
	and Political Issues	3
PHM 4400	Philosophy of Law ¹	3
PHP 4510	Marxism	
POT 3064	Contemporary Politica	.l
	Theory	3
POT 3302	Political Ideologies	3
POT 3204	American Political	
	Thought 1	3
POT 4930	Topics in Political	_
	Theory 2	3
POT 5934	Topics in Political	_
	Theory ²	3
SYG 3002	The Basic Ideas of	_
	Sociology	3
SYA 4010	Sociological Theones	3
SYO 4300	Political Sociology	3
SYA 4011	Advanced Social	_
	Theory	3
1Thematic C	ourses that cover more the	nan

1Thematic Courses that cover more than one historical period.
2Depending on subject taught, these courses may cover one or more than one historical period. Students should consult their advisor before enrolling

Women's Studies Certificate Program

Marilyn Hoder-Salmon, Director, Women's Studies Center Coordinating Committee Joyce Shaw Peterson, Coordinator, (History) Rusty Belote (Student Affairs)

Lynn Berk (English)
Judy Blucker (Academic Affairs)
Irma de Alonso (Economics)

Minnle Dunber (Library)
Mary Jane Elkins (English)

Steve Fjellman
(Sociology/Anthropology)

(Sociology/Anthropology Mary Levitt (Psychology) Lynda Raheem (Business

Administration)
Ana Roca (Modern Languages)
Regina Shearn (Public Alfairs)
Betsy Smith (Social Work)
Margaret Wilson (Labor Institute)

The Women's Studies Certificate Program provides an opportunity for students to integrate scholarship about women from a variety of disciplines into a coherent program of study. The Certificate program includes a core of required courses central to an understanding of women in a social and historical context. The courses provide a basic grounding in Women's Studies that should be useful in many other courses. The core courses are supplemented by a variety of electives to be chosen according to the particular student's specific interests. The Certificate program seeks to provide a balance to the traditional academic curriculum and also offers pragmatic vocational learning. A student may acquire the Certificate in Women's Studies by fulfilling the

Three required Core Courses of the following:

following requirements:

AMH 3560 History of Women in the United States Psychology of Women 3 **SOP 3742** PUP 4323 Politics of Contemporary Women's Issues Women and Literature 3 LIT 3411 Introduction to WST 3010 Women's Studies Foundations of Liberal IDS 3930 Studies Female/Male: Woman's **HUM 3930**

Three electives from the following partial list:
ANT 3302 Male and Female: Sex

Studies Seminar

	Roles and Sexuality	3
CCJ 4663	Women, Crime	
	and the Criminal	
	Justice System	3
ENG 4132	Women and Film	3
ETI 4691	Women in Industry	3
LIT 3411	Women and Literature	3
MAN 4781	Women in Managemer	ıt
	of Business	
	Organizations	3
PAD 5435	Administrator and the	
	Role of Women	3
PHM 4123	Philosophy and	
	Feminism	3
SOW 5621	Crises in the Lives of	
	Women	3
WOH 3280	History of Women	3

In any particular semester, appropriate special topics courses may be taken as electives with approval Students should contact the Women's Studies Center Director on the University Park, Tower Trailor, 554 2408, or the Certificate Committee Coordinator on the North Miami Campus at 940 5859 for Jurther information.

College of Arts and Sciences

James A. Mau Dean Associate Dean, Budget and Arthur W. Herriott Development Associate Dean. Graduate Programs, Luis Escovar Assistant Dean, Curriculum and Fred Bouma Advisement Director (Acting), School of Computer Jainendra Naviakha Science Director, School of Journalism and Mass Communication J. Arthur Halse Chairpersons and Program Directors: Biological Sciences Walter Goldberb Leonard Keller Chemistry Economics Raul Moncarz Mary Jane Elkins English Environmental Studies John Parker Florentin Maurrasse Geology Howard Rock History Ramon Mendoza Humanities International Charles MacDonald Relations International Studies Susan Waltz Janat Parker Liberal Studies Dev Rov Mathematics Modern Languages Reinaldo Sanchez Joseph Rohm Music Philosophy and Robert Hann Religious Studies Stephan Mintz Physics Political Science Joel Gottlieb Paul Foos Psychology Sociology and Lisandro Perez Anthropology Carlos Brain Statistics Theatre and Therald Todd Dance William Maguire Visual Arts

Faculty

Aladro, Gerardo, Ph.D. (Pennsylvania State University), Assistant Professor, Mathematics

Ambrosino, Carlo, Dott. Chem. (University of Torino), Research Scientist, Biological Sciences

Antrim, Harry, Ph.D. (University of Florida), Professor, English

Aragon, Irmenia, M.A. (Temple University), Instructor, Modern Languages

Arnold, St. George Tucker, Jr., Ph.D. (Stanford University), Associate Professor, English

Augenblick, John, D.M.A. (University of Miami), Associate Professor, Music

Azmitla, Margarita, Ph.D. (University of Minnesota), Assistant Professor, Psychology

Bahrick, Lorraine, Ph.D. (Cornell University), Associate Professor, Psychology

- Bailey, Patrice, M.A. (Indiana State), Instructor, Theatre and Dance
- Bakula, Joanne, Ph.D. (Saybrook Institute), Instructor, English Barrett, Lynn, M.F.A. (University of
- North Carolina- Greensboro), Associate Professor, English Barton, David, Ph.D. (University of
- Barton, David, Ph.D. (University of Cambridge), Professor, School of Computer Science
- Beer, Michelle, Ph.D. (University of Pittsburgh), Assistant Professor, Philosophy and Religious Studies
- Berk, Lynn, Ph.D. (Purdue University), Associate Prolessor, English Berk, Toby, Ph.D. (Purdue University),
- Professor, and Associate Director, School of Computer Science Bigger, Charles, Ph.D. (Florida State
- University), Associate Professor, Biological Sciences
- Blum, Milton, Ph.D. (New York University), Prolessor, Psychology
- Bogue, Stanley, Ph.D. (University of Michigan), Assistant Professor, School of Journalism and Mass Communication
- Bone, Richard, Ph.D. (University of West Indies, Jamaica), Associate Professor, Physics
- Boodhoo, Ken, Ph.D. (University of the West Indies, Jamaica), Associate Professor, International Relations
- Brain, Carlos, Ph.D. (West Virginia University), Associate Prolessor, and Chairperson, Statistics
- Bralower, Timothy, Ph.D. (University of California- San Diego), Assistant Professor, Geology
- Brealin, Thomas A., Ph.D. (University of Virginia), Associate Professor, International Relations, and Vice Provost
- Brick, John, Ph.D. (University of Miami), Assistant Professor, Music
- Brook, Lee, B.S. (Julliard School), Assistant Professor, Theatre and Dance
- Brown, Jerry, Ph.D. (Cornell University), Associate Prolessor, Sociology/ Anthropology
- Buckley, Raiph, M.F.A. (Maryland Institute), Associate Professor, Visual Arts
- Burke, William, M.F.A. (State University of New York at New Paltz), Associate Professor, Visual Arts
- Carvajal, Manuel, Ph.D. (University of Florida), Professor, Economics
- Casines, Gisela, Ph.D. (University of Florida), Assistant Professor, English
- Castellanos, Isabel, Ph.D. (Georgetown University), Associate Professor, Modern Languages
- Chen, Chun-Fan, Ph.D. (University of Michigan), Associate Professor, Biological Sciences

- Chernela, Janet, Ph.D. (Columbia University), Assistant Professor, Sociology/ Anthropology
- Chung, Bongkll, Ph.D. (Michigan State University), Associate Professor, Philosophy and Religious Studies
- Church, Philip, M.F.A. (University of California at Irvine), Associate Professor, Theatre and Dance
- Clem, Ralph, Ph.D. (Columbia University), Professor, International Relations
- Clement, Bradford, Ph.D. (Columbia University), Assistant Professor, Geology
- Comfort, John C., Ph.D. (Case Western Reserve University), Professor, School of Computer Science
- Connor, Charles, Ph.D. (Dartmouth College), Assistant Professor, Geology
- Copper, Mark, Ph.D. (University of Georgia), Assistant Professor, Mathematics
- Correll, Helen, Ph.D. (Duke University), Research Scientist, Biological Sciences
- Cortina, Rodolfo, Ph.D. (Case Western Reserve University), Associate Professor, Modern Languages
- Couch, James E., M.S. (Florida State University), Associate Professor, School of Journalism and Mass Communication
- Couper, James, M.A. (Florida State University), Professor, Visual Arts
- Craumer, Peter, Ph.D. (Columbia University), Assistant Professor, International Relations
- Crosby, James, Ph.D. (Yale University), Professor, Modern Languages
- Cruz, Robert, Ph.D. (University of Pennsylvania), Assistant Professor, Economics
- Cuervo, Leon, Ph.D. (University of Maryland), Associate Professor, Biological Sciences
- Cutler, Brian, Ph.D. (University of Wisconsin- Madison), Assistant
- Professor, Psychology

 Dalrymple, George, Ph.D. (University of Toronto), Associate Professor,
- Biological Sciences
 Darici, Yesim, Ph.D. (University of Missouri), Assistant Professor, Physics
- Daruwala, Maneck, Ph.D. (University of Rochester), Associate
- Professor, English
 de Alonso, Irma, Ph.D. (University of
 York, England), Associate
 Professor, Economics
- de Jongh, Elena, Ph.D. (Tulane University), Assistant Professor, Modern Languages
- de la Cuesta, Leonel A., Ph.D. (Johns Hopkins University), Assistant Professor, Modern Languages

- del Valle, Eduardo, M.F.A. (Brooklyn College, City University of New York), Assistant Professor, Visual
- Delgado, Humberto, M.A. (Goddard College), Assistant Professor, School of Journalism and Mass Communication
- Detwiler, Bruce, J.D., Ph.D., (Cornell University), Assistant Professor, Political Science
- Downum, Kelsey, Ph.D. (University of British Columbia), Assistant Professor, Biological Sciences
- Draper, Grenville, Ph.D. (University of the West Indies), Associate Professor, Geology
- Draper, Paul, Ph.D. (University of California- Irvine), Assistant Professor, Philosophy and Religious Studies
- Duncan, Richard, M.F.A. (Southern Illinois University), Associate Professor, Visual Arts
- Dunn, Marvin, Ph.D. (University of Tennessee), Associate Professor, Psychology
- Dutt, Amitava, Ph.D. (Massachusetts Institute of Technology), Associate Professor, Economics
- Dwyer, Richard, Ph.D. (University of California at Los Angeles), Professor, English
- Ege, Ralmund, Ph.D. (Oregon Graduate Center), Assistant Professor, School of Computer Science
- Elkins, Charles, Ph.D. (Southern Illinois University), Professor, English and Vice Provost
- Eikins, Mary Jane, Ph.D. (Southern Illinois University), Associate Professor, and Chairperson, English
- Endel, Peggy, Ph.D. (Cornell University), Associate Professor, English
- Erber, Joan, Ph.D. (St. Louis University), Associate Professor, Psychology
- Erwin, Nancy, Ph.D. (University of Florida), Assistant Professor, International Relations
- Escovar, Luls, Ph.D. (Pennsylvania State University), Associate Professor, Psychology, and Associate Dean, College of Arts and Sciences
- Espino, Maria Dolores, Ph.D. (Florida State University), Assistant Professor, Economics
- Fernandez, Damian J., Ph.D. (University of Miami), Assistant Professor, International Relations
- Fiebig, Rudolf, Ph.D. (University of Munster), Assistant Professor, Physics
- Fink, Philip, Ph.D. (University of Miami), Professor, Music

- Finley, Gordon, Ph.D. (Harvard University), Professor, Psychology
- Fisher, Jack B., Ph.D. (University of California at Davis), Research Scientist, Biological Sciences
- Flsher, George, Ph.D. (University of Miami), Assistant Professor, Chemistry
- Fisher, Robert, Ph.D. (University of Kansas), Professor
- Fisher, Ronald, Ph.D. (Ohio State University), Associate Professor, Psychology
- Fjellman, Stephen, Ph.D. (Stanford University), Associate Professor, Sociology/ Anthropology
- Flexser, Arthur, Ph.D. (Stanford University), Associate Professor, Psychology
- Foos, Paul, Ph.D. (Bowling Green State University), Associate Professor and Chairperson, Psychology
- Fowler, Michael, J.D. (University of Miami), Assistant Professor, School of Journalism and Mass Communication
- Fox, Tille, M.S. (University of Miami), Instructor, Mathematics
- Fraser, Scott, Ph.D. (University of Akron), Assistant Professor, Psychology
- Free, Mary, Ph.D. (University of Georgia), Associate Professor, English
- French, John, Ph.D. (Yale University).
 Assistant Professor, History
- Furton, Kenneth, Ph.D. (Wayne State University), Assistant Professor, Chemistry
- Gamerra, Eduardo, Ph.D. (University of Pittsburgh), Assistant Professor, Political Science
- Garcia, Orlando, D.M.A. (University of Miami), Assistant Professor, Music
- Garin, Patrick, M.B.A. (University of Chicago), Instructor, School of Computer Science
- Gathercole, Virginia, Ph.D. (University of Kansas), Associate Professor, English, and Director, Linguistics
- Gerstman, Bernard, Ph.D. (Princeton University), Assistant Professor, Physics
- Gewirtz, Jacob, Ph.D. (State University of Iowa), Professor, Psychology
- Ghal, Gaurl, Ph.D. (Iowa State University), Associate Professor, Statistics
- Girden, Edward, Ph.D. (University of Illinois), Distinguished Professor Emeritus, Psychology
- Gladwin, Hugh, Ph.D. (Stanford University), Assistant Professor, Sociology/ Anthropology
- Goldberg, Walter, Ph.D. (University of Miami), Associate Professor and Chairperson, Biological Sciencos

- Gomez, Mirta, M.F.A. (Brooklyn College, City University of New York), Assistant Professor, Visual Arts
- Gonzalez-Relgosa, Fernando, Ph.D. (Florida State University), Associate Professor, Psychology
- Gordon, Kenneth, Ph.D. (University of California, Davis), Associate Professor, Biological Sciences
- Gorman, Susan, Ph.D. (University of Maryland), Instructor, Mathematics
- Gottlleb, Joel, Ph.D. (University of California at Riverside), Associate Professor and Chairperson, Political Science
- Grenler, Gulllermo, Ph.D. (University of New Mexico), Assistant Professor, Sociology/ Anthropology
- Guers-Villate, Yvonne, Ph.D. (Bryn Mawr College), Professor Emeritus, Modern Languages
- Habermann, Peter, Ph.D. (Justus Liebig University, Germany), Associate Professor, School of Journalism and Mass Communication
- Hall, James, Ph.D. (University of Utah), Professor, English
- Hall, Kevin, B.A. (Fordham University), Editor-in-Residence, School of Journalism and Mass Communication
- Hann, Robert, Ph.D. (Temple University), Associate Professor and Chairperson, Philosophy and Religious Studies
- Hardy, Kenneth, Ph.D. (Tulane University), Professor, Physics
- Hauptli, Bruce, Ph.D. (Washington University), Associate Professor, Philosophy and Religious Studies
- Helse, J. Arthur, Ph.D. (Syracuse University), Professor and Director, School of Journalism and Mass Communication
- Henley, Carol, M.S. (University of Miami), Instructor, School of Computer Science
- Henley, Kenneth, Ph.D. (University of Virginia), Associate Professor, Philosophy and Religious Studies
- Herrera, Rene, Ph.D. (Fordham University), Assistant Professor, Biological Sciences
- Herring, David, M.A. (Trinity University), Assistant Professor, Theatre and Dance
- Herrlott, Arthur, Ph.D. (University of Florida), Professor, Chemistry and Associato Dean, Colloge of Arts and Sciences
- Hickey-Vargas, Rosemary, Ph.D. (Massachusetts Institute of Technology) Assistant Professor, Geology

- Holden, Peter, Ph.D. (California Institute of Technology), Assistant Professor, Mathematics
 - Hopkins, Tometro, Ph.D. (Indiana University), Instructor, English
 - Houghton, William, M.S. (University of Georgia), Research Scientist, Biological Sciences
 - Howard, Laura, M.S. (University of Florida), Instructor, Statistics
 - Howell, Ina Parks, Ph.D. (University of South Florida), Lecturer, Statistics
 - Huchingson, James, Ph.D. (Emory University), Associate Professor, Philosophy and Religious Studies Hudson, Steven, Ph.D. (University of
 - Chicago), Assistant Professor, Mathematics Jacobs, Ellen, M. S. (Illinois Institute
 - ofTechnology), Professor, Visual Arts
- Jensen, John, Ph.D. (Harvard University), Associate Professor, Modern Languages
- Jhabvala, Farrokh, Ph.D. (Fletcher School of Law and Diplomacy), Professor, International Relations
- Joens, Jeffrey, Ph.D. (Indiana University), Assistant Professor,
- Chemistry
 Johnson, Kenneth, Ph.D. (Brown
 University), Associate Professor,
 English
- Johnson-Cousin, Danlelle, Ph.D. (University of Illinois), Associate Professor, Modern Languages
- Jones, Ronald, Ph.D. (Oregon State University), Assistant Prolessor, Biological Sciences and Drinking Water Research Center
- Jorge, Antonio, Ph.D. (Villanova Universidad), Professor, Economics, International Relations, Political Science and Sociology/ Anthropology
- Juang, Shing-Her, Ph.D. (Ohio State), Assistant Professor, Statistics Kaminsky, Howard, Ph.D. (University
- of Chicago), Professor, History Keller, Leonard, Ph.D. (Yale
 - University), Associate Professor and Chairperson, Chemistry
- Kincald, A. Douglas, M.A. (University of North Carolina), Assistant Professor, Sociology/Anthropology and Associate Director, Latin
- American Caribbean Centor
 Kopenhaver, Llillan L., Ed.D. (Nova
 University), Associato Professor,
 School of Journalism and Mass
 Communication
- Koptur, Suzanne, Ph.D. (University of California), Assistant Professor, Biological Sciences
- Kovacs, George, Ph.D. (University of Louvain), Professor, Philosophy and Religious Studies

- Krause, Denise, M.A. (San Diego State University), Instructor, Theatre and Dance
- Kraynek, William, Ph.D. (Carnegie-Mellon University), Associate Professor, School of Computer Science
- Kurtines, William, Ph.D. (Johns Hopkins University), Professor, Psychology
- Landrum, John, Ph.D. (University of Southern California), Associate Professor, Chemistry
- Lavin, Susan, M.A. (University of Miami), Instructor, English
- Leckland, Mark, Ph.D. (Purdue University) Associate Professor, Mathematics
- Lee, David, Ph.D. (Rutgers University), Associate Professor, Biological Sciences
- Lee, Shih-Cheng, Ph.D. (Ohio State), Assistant Professor, Statistics
- Leed, Eric, Ph.D. (University of Rochester), Associate Professor, History
- Leeds, Marie, M.A. (University of Miami), Assistant Professor, Music
- Levine, Barry, Ph.D. (New School for Social Research), Professor, Sociology/ Anthropology
- Levitt, Mary, Ph.D. (Syracuse University), Associate Professor, Psychology
- Liossatos, Panagis, Ph.D. (University of Pennsylvania), Associate Professor, Economics
- Lipner, Kenneth, Ph.D. (Rutgers University), Assistant Professor, Economics
- Lopez, Jesua, Ph.D. (University of California at Davis), Assistant Professor, Chemistry
- Lopez de la Vega, Ramon, Ph.D. (University of Miami), Assistant Professor, Chemistry
- Lowery, Shearon, Ph.D. (Washington State University), Associate Professor, Sociology/ Anthropology
- MacDonald, Charles, Ph.D. (University of Virginia), Professor, and Chairperson, International Relations
- Machonis, Peter A., Ph.D. (Pennsylvania State University), Associate Professor, Modern Languages
- Mackey, Wasley, Ph.D. (University of Manitoba), Lecturer, School of Computer Science
- Maguire, William, M.S. (Illinois Institute of Technology), Associate Prolessor and Chairperson, Visual Arts
- Malngot, Anthony, Ph.D. (University of Florida), Professor, Sociology/ Anthropology

- Makemson, John, Ph.D. (Washington State University), Associate Professor, Biological Sciences
- Martinson, David L., Ph.D. (University of Minnesota), Associate Professor, School of Journalism and Mass Communication
- Mau, James A., Ph.D. (University of California at Los Angeles), Professor, Sociology/ Anthropology and Dean, College of Arts and Sciences
- Maurrasse, Florentin, Ph.D. (Columbia University), Professor and Chairperson, Geology
- Maxell, Oren, Ph.D. (State University of New York at Stony Brook), Assistant Professor, Physics
- McCormack, Kathleen, Ph.D. (University of Miami), Associate Professor, English
- McCoy, Diana, M.A. (Case Western Reserve University), Instructor, Mathematics
- McElfresh, Clair, D.M.A. (Case Western Reserve University), Professor, Music
- McIntire, Carmela Pinto, Ph.D. (Michigan State University), Associate Professor, English
- McLeughlin, Patsy, Ph.D. (George Washington University), Research Scientist, Biological Sciences
- Mendoza, Ramon, Ph.D. (Frei Universitat, Berlin), Professor, Modern Languages and Director of Humanities
- Mernitz, Susan, Ph.D. (University of Missouri), Assistant Professor, History
- Mesbahl, Mohladdin, Ph.D. (University of Miami), Assistant Professor, International Relations
- Meziani, Abdelhamid, Ph.D. (Rutgers University), Assistant Professor, Mathematics
- Milbauer, Asher, Ph.D. (University of Washington, Seattle), Associate Professor, English
- Milani, Masoud, Ph.D. (University of Central Florida), Assistant Professor, School of Computer Science
- Mintz, Stephan, Ph.D. (Johns Hopkins University), Professor, and Chairperson, Physics
- Moncarz, Raul, Ph.D. (Florida State University), Professor and Chairperson, Economics
- Moore, Howard, Ph.D. (University of Arkansas), Professor, Chemistry
- Morales-Martinez, Zalda C., M.S. (Pennsylvania State University), Instructor and Coordinator of Laboratories, Chemistry
- Morgan, Dahlla, Diplomate of College Teaching (University of Florida), Lecturer, Visual Arts and Director of The Art Museum

- Moran, Gary, Ph.D. (Katholieke University, Nijmegan, Netherlands), Prolessor, Psychology
- Moreno, Darlo, Ph.D. (University of Southern California), Assistant Prolessor, Political Science
- Morrow, Betty, Ph.D. (University of Miami), Associate Professor, Sociology/ Anthropology
- Murlson, Gerald, Ph.D. (Johns Hopkins University), Associate Professor, Biological Sciences
- Nadel, Richard, M.S. (Northwestern University), Instructor, Mathematics
- Navlakha, Jalnendra, Ph.D. (Case Western Reserve University), Professor and Acting Director, School of Computer Science
- Nelson, Brlan, Ph.D. (University of California at Riverside), Associate Professor, Political Science
- Norstog, Knut, Ph.D. (University of Michigan), Research Scientist, Biological Sciences
- O'Brlen, Mary Ellen, M.F.A. (Tulane University), Assistant Professor, Theatre and Dance
- Oberbauer, Steven, Ph.D. (Duke University), Assistant Professor, Biological Sciences
- Okubo, Case, Ph.D. (University of Guelph), Associate Professor, Biological Sciences
- Osborne, William, Jr., Ph.D. (Emory University), Associate Professor, Sociology/ Anthropology
- Parker, Janat, Ph.D. (University of California at Berkeley), Associate Professor, Psychology and Director of Liberal Studies
- Parker, John, Ph.D. (University of California at Berkeley), Professor, Chemistry and Director of Environmental Studies
- Pasztor, Ana, DRN (Darmstadt University, West Germany), Associate Professor, School of Computer Science
- Pechan, Peter, Ph.D. (Oxford University, England), Research Scientist, Biological Sciences
- Pelin, Alexandru, Ph.D. (University of Pennsylvania), Associate Professor, School of Computer Science
- Perez, Lisandro, Ph.D. (University of Florida), Associate Professor, Sociology/ Anthropology
- Pestalna, Norman, M.S. (Pennsylvania State University), Instructor, School of Computer Science
- Peterson, Brian, Ph.D. (University of Wisconsin), Associate Professor, History and Associate Dean, College of Arts and Sciences
- Peterson, Joyce, Ph.D. (University of Wisconsin), Associate Professor, History

- Pheidas, Thanasea, Ph.D. (Purdue), Assistant Professor, Mathematics
- Pliske, Thomas, Ph.D. (Cornell University), Lecturer, Biological Sciences
- Popenoe, John, Ph.D. (University of Maryland), Research Scientist, Biological Sciences
- Portes, Alejandro, Ph.D. (University of Wisconsin- Madison), Patricia and Phillip Frost Distinguished Professor, Sociology/ Anthropology
- Prabhakaran, Nagarajan, Ph.D. (University of Queenstand), Assistant Professor, School of Computer Science
- Pyron, Darden, Ph.D. (University of Virginia), Associate Professor, History
- Quackenbush, L. Scott, Ph.D. (Florida State University), Assistant Professor, Biological Sciences
- Quirke, Martin, Ph.D. (University of Liverpool), Associate Professor, Chemistry
- Rae, Nicol, D.Phll. (Oxford University), Assistant Professor, Political Science
- Ramsamujh, Taje, Ph.D. (California Institute of Technology), Assistant Professor, Mathematics
- Ratner, Robert, M.A. (University of Miami), Instructor, English
- Richards, Jenniter, Ph.D. (University of California, Berkeley), Associate Professor, Biological Sciences
- Rishe, Naphtali, Ph.D. (Tel Aviv University, Israel), Associate Professor, School of Computer Science
- Ritter, David, Ph.D. (Louisiana State University), Associate Professor, Mathematics
- Roca, Ana, D.A. (University of Miami), Assistant Professor, Modern Languages
- Rochelson, Meri-Jane, Ph.D. (University of Chicago), Assistant Professor, English
- Rock, Howard, Ph.D. (New York University), Chairperson and Associate Professor, History
- Rogerson, Kenneth, Ph.D. (University of California at San Diego), Assistant Professor, Philosophy and Religious Studies
- Rohm, Joseph, Ph.D. (Florida State University), Associate Professor and Chairperson, Music
- Rosenberg, Merk, Ph.D. (University of Pittsburgh), Associate Professor, Political Science, and Director of Latin American and Caribbean Center
- Rosenthal, Michael, M.S. (University of Miami), Instructor, Mathematics
- Rotton, James, Ph.D. (Purdue University), Associate Professor, Psychology

- Roy, Dev, Ph.D. (University of Rochester), Associate Professor, and Chairperson, Mathematics
- Rubenberg, Cheryl, Ph.D. (University of Miami), Associate Professor, Political Science
- Rubin, Richard, Ph.D. (Washington University), Associate Professor, Mathematics
- Salazar-Carrillo, Jorge, Ph.D. (University of California at Berkeley), Prolessor, Economics and Director, Center of Economic Research and Education
- Sanders, Roger, Ph.D. (University of Texas at Austin), Research Scientist, Biological Sciences
- Sanchez, Reinaldo, Ph.D. (Washington University), Professor and Chairperson, Modem Languages
- Saper, Bernard, Ph.D. (University of California at Los Angeles), Professor, Psychology
- Sauleda, Orlando, M.S. (Florida International University), Instructor, School of Computer Science
- Schwartz, Richard, Ph.D. (University of Chicago), Associate Professor, English
- Sen, Gautam, Ph.D. (University of Texas at Dallas), Associate Professor, Geology
- Sevilla, Carlos, Ph.D. (Stanford University), Assistant Professor, Economics
- Shapiro, Samuel, Ph.D. (Rutgers University), Professor, Statistics
- Sheldon, John, Ph.D. (Texas A&M University), Professor, Physics
- Shershin, Anthony, Ph.D. (University of Florida), Associate Professor, Mathematics
- Shore, Minna, Ph.D. (Leningrad Technical Institute), Instructor, Mathematics
- Skow, Marilyn, M.Ph. (Columbia University), Assistant Professor, Theatre and Dance
- Slifker, Jemes, Ph.D. (University of Notre Dame), Associate Professor, Mathematics
- Soruco, Gonzalo, Ph.D. (Indiana University), Assistant Professor, School of Journalism and Mass Communication
- Sprechman, Ellen, M.A. (Barry University), Instructor, English
- Steck, John, Jr., Ph.D. (University of Denver), Professor and Chairperson, Political Science
- Standiford, Lester, Ph.D. (University of Utah), Associate Professor, Fnalish
- Stayman, Andree, M.A. (University of Miami), Instructor, Modorn Languages

- Steln, Abraham, Ph.D. (University of Southern California), Professor, Biological Sciences
- Stepick, Alex, Ph.D. (University of California at Irvine), Associate Professor, Sociology/ Anthropology
- Stiehm, Judith, Ph.D. (Columbia University), Professor, Political Science and University Provost
- Sugg, Richard, Ph.D. (University of Florida), Professor, English Szuchman, Mark, Ph.D. (University of
- Texas), Professor, History
 Tel, Doron, Ph.D. (Ben Gurion
 University, Israel), Assistant
- Professor, School of Computer Science Thorhaug, Anitra, Ph.D. (University of
- Miami), Research Scientist, Biological Sciences
- Ticknor, Donna, Ph.D. (University of Florida), Lecturer, Chemistry
 Todd. Therald, Ph.D. (University of
- Oregon), Associate Professor and Chairperson, Theatre and Dance
- Torres, Manuel, Ph.D. (University of New Mexico), Assistant Professor, Visual Arts
- Tracey, Martin, Ph.D. (Brown University), Professor, Biological Sciences
- Treadgold, Warren, Ph.D. (Harvard University), Assistant Professor, History
- Vagramlan-Nishanlan, Violet, Ph.D. (University of Miami), Prolessor, Music
- Van Hamme, Walter, Ph.D. (University of Ghent, Belgium), Assistant Professor, Physics
- Veraldi, Lorna, J.D. (New York School of Law), Assistant Professor, School of Journalism and Mass Communication
- Vickers, William, Ph.D. (University of Florida), Associate Professor, Sociology/ Anthropology
- Volcansek, Mary, Ph.D. (Texas Tech University), Professor, Political Science
- Waltz, Susan, Ph.D. (University of Denver), Assistant Professor, International Relations and Director of International Studies
- Warren, Christopher, D.A. (Lehigh University), Associate Professor, Political Science
- Warren, Paul, Ph.D. (University of Wisconsin Madison), Assistant Professor, Philosophy and Religious Studies
- Watson, Donald, Ph.D. (University of Virginia), Professor, English Watson-Espener, Malda, Ph.D.
- Natson-Espener, Malda, Ph.D. (University of Florida), Associate Professor, Modern Languages
- Walts, Barbara, Ph.D. (University of Virginia), Assistant Professor, Visual Arts

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- Weugh, Butler, Ph.D. (Indiana University), Professor, English
- Weeks, Ophelia, Ph.D. (Howard University), Assistant Professor, Biological Sciences
- Wel, Jong-Shin, Ph.D. (Purdue University), Assistant Professor, Economics
- Welss, Mark, Ph.D. (Princeton), Assistant Professor, School of Computer Science
- Weltz, Barbara, M.S. (Florida International University), Instructor, English
- Welch, Marcelle, Ph.D. (University of Michigan), Associate Professor, Modern Languages
- Wilkins, Mira, Ph.D. (University of Cambridge), Professor, Economics
- Williams, Wille, Ph.D. (Michigan State University), Associate Professor, Mathematics
- Willumaen, Maria, Ph.D. (Cornell University), Assistant Professor, Economics
- Winkle, Stehpen, Ph.D. (University of Rochester), Associate Professor, Chemistry
- Winters, Sandre, M.F.A. (Cornell University), Assistant Professor, Visual Arts
- Wright, William, M.A. (Pennsylvania State University), Associate Professor, School of Journalism and Mass Communication
- Wolfe, Gregory Baker, Ph.D. (The Fletcher School of Law and Diplomacy), Professor, International Relations
- Wyroba, Francis, M.A. (Columbia University), Professor, Visual Arts
- Yudin, Florence, Ph.D. (University of Illinois), Professor, Modern Languages
- Zahedi-Jasbi, Hassan, Ph.D. (University of California at Riverside), Assistant Professor, Statistics
- Zalkikar, Joyti, Ph.D. (University of California, Santa Barbara), Assistant Professor, Statistics
- Zwelbel, John, Ph.D. (Columbia University), Assistant Professor, Mathematics

College of Business Administration

College of Business Administration

The College of Business Administration offers academic programs leading to the undergraduate degrees of Bachelor of Business Administration and Bachelor of Accounting and to the graduate degrees of Master of Accounting (M.Acc.), Master of Business Administration (M.B.A.), Master of International Business (M.I.B.), Master of Science in Finance (M.S.F.), Master of Science in Management Information Systems, (M.S. in MIS), Master of Science in Taxation (M.S.T.), and Doctor of Philosophy in Business Administration (Ph.D.).

The College is organized into the School of Accounting and Departments of Decision Sciences and Information Systems, Finance, Management and International Business, and Marketing and Environment.

Note: The programs, policies, requirements, and regulations listed in this catalog are continually subject to review in order to serve the needs of the University's various publics and to respond to the mandates of the Florida Board of Regents and the Florida Legislature, Changes may be made without advance notice. Please refer to the General Information section for the University's policies, requirements, and regulations.

Undergraduate Degree information

All students must have a program of study completed by the end of their first semester. Entering Accounting majors should call the School of Accounting, 554-2581, to make a program counselling appointment. All other majors should call 554-2781 at the University Park or 940-5870 at the North Miami Campus. At the time of the appointment the appropriate counselor will assist the student in completing a formal program of study. (A program of study is one that has been completed and signed by the student and the counselor). Questions of interpretation regarding course or degree requirements will be resolved at the time the program of study is developed. If, for some reason, a program of study is not completed at least two semesters before a student is expected to graduate, the student may not be permitted to register for future classes.

Undergraduate students majoring in non-business areas will not be permitted to apply more than 30 semester hours of business courses toward their degree.

Additionally, students who register for any graduate business course must be formally admitted to a graduate certificate or graduate degree program at the University. Applicants to the College must submit an Application for Admission to the University and must follow the regular University admission procedures. Applicants must be eligible for admission to the University before admission to the College.

Academic Standards

1. CBA undergraduates must earn a grade of 'C' or higher in all major courses (excluding core).

CBA undergraduates will be required to pass a Readiness Examination prior to registration in ACG

3301 and ACG 4101.

3. Undergraduate and graduate students may not enroll more than twice in any CBA course without the written permission of the Dean. This permission will be granted only in those exceptional cases where failure to complete a course successfully is demonstrated to be unrelated to classroom performance.

4. All CBA students must satisfy the requirements of their respective programs of study and, additionally, must satisfy all University requirements

for graduation.

5. See University General Information regarding Academic Warning, Probation, and Dismissal.

Undergraduate Study

An undergraduate student is required to have completed the Associate of Arts degree or its equivalent, and is encouraged to have some knowledge of accounting, mathematics, computer programming, speech and economics (accounting majors should also have coursework in the areas of calculus and logic). The broad liberal arts exposure inherent in the Associate of Arts degree usually enables a student to complete the Bachelor of Business Administration requirements in the equivalent of two years, and to take most of the professional work within the College.

This professional work includes:

- 1. Pre-core courses where necessary:
- 2. Certain required courses designed to provide the student with a common body of knowledge, including:
- a. A background of concepts and processes in the marketing, production, and financing of goods and services in the business enterprise and related organizations, both domestically and internationally;

 A background of the economic and legal environment as it pertains to

profit and non-profit organizations along with ethical, social, and political influences:

- c. A basic understanding of concepts and applications in accounting, quantitative methods, computers, and management information systems;
- d. A study of communication theory, behavior, and interpersonal communications:
- A study of administrative processes and decision-making under conditions of uncertainty, including policy analysis at the overall management level;

3. Courses required for the student's major:

4. Approved elective courses.

The student entering an undergraduate program of the College is required to meet the following standards:

 60 semester hours completed. 2. Grade point average of 2.50 or

higher.

Satisfaction of general University requirements for admission. including, in this case, the general education requirements. The general education requirements are: English composition, humanities, social science. natural science, and mathematics.

If a student has a GPA higher than 2.50 and is deficient in no more than six semester hours of general education requirements, the student may still be accepted into the undergraduate program. However, all lower division deficiencies must be completed during the student's first two semesters at the University.

Time Limit

All undergraduate business coursework (including prerequisites) must be earned within seven years immediately preceding the awarding of the degree.

Upper Division Transfer

Previous credit may be considered acceptable for transfer toward upper level academic study in the College if the credit was earned within the last six years, was designated as junior-senior level credit at an accredited four year upper level institution, a grade of 'C' or higher was earned, or can be validated by some acceptable measure to verify its equivalence. Students wishing to transfer to the College must be in good standing at their previous school or college.

Undergraduate Majors

Major programs leading to the Bachelor's degree are offered in Accounting, Finance, Management, Personnel Management, Management Information Systems, and Marketing. A second major in International Business may be obtained in addition to any of these business functional majors. Non-business majors must meet all College of Business Administration requirements (including the core courses) to be elicible for a second major in Business.

Change of Major

Any student changing to a new major within the College of Business Administration from another college or school in the University must meet degree requirements in effect at the time of the change of major.

Residency Requirements

A student must complete the last 30 semester hours of course work at the University to qualify for the BBA degree.

Readmission

An admitted degree-seeking student who has not enrolled in any course at the University for three consecutive semesters or more is eligible for readmission under the University and program regulations in effect at the time of readmission.

Degree Requirements

See University General Information.

Undergraduate Business Program Requirements

Lower Division Preparation: The following courses, in addition to the other requirements for the Associate of Arts degree, should be a part of the 60 semester hours of lower division coursework completed in order to enter any CBA upper division major: six semester hours of accounting, six semester hours of economics; three semester hours of college algebra; three semester hours of business statistics: three semester hours of computer programming, and three semester hours of public speaking. If completed at the University, this coursework will normally be taken in addition to the 60 semester hours of required upper division work.

FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into College of Business Administration programs

Computer Programming Prolicioncy Requirement. The rapidly increasing need of the prolessional administrator for exposure to computer technology and terminology requires that fundamental expertise in this area be achieved. Therefore, prior to enrollment in

CGS 3300 (or ACG 4401), each student

must demonstrate computer programming proficiency. This requirement may be completed in any of the following ways:

 Successful completion of a computer programming course at the lower division.

Successful completion of COP 2172 Programming in BASIC.

Work experience with venification by employer. Further details may be obtained from the undergraduate counseling office.

Upper Division Program

Pre-Core Courses Required for Business Administration Students: (18)

ACG 3021	Accounting for	
	Decisions	3
COP 2172	Programming in	
	BASIC	3
ECO 3021	Economics, Man and	
	Society-Micro	3
ECO 3011	Economics, Man and	
	Society-Macro	3
STA 3132	Business Statistics	3
SPC 2600	Public Speaking	3

The above courses will be waived if the student received a grade of 'C' or higher in the appropriate lower division courses. A student should see a counselor to determine whether these courses should or should not be added to the program of study. Upper division credit will not be given for STA 3132, ECO 3021, ECO 3021, ECO 3011, ACG 3021, COP 2172, MAC 3233, and PHI 3011, or comparable courses taken at the lower level.

Core Courses Required for Business Administration

Students: (33-36)

FIN 3403	Financial	
	Management	3
MAN 3025	Organization and	
	Management	3
MAR 3023	Marketing	
	Management	3
CGS 3300	Introduction to	Ŭ
000000	Information Systems ¹	3
ACG 3301	Accounting for	J
ACG 3301		3
ECO 3431	Planning and Control	J
ECO 3431	Applied	_
	Macroeconomics	3
QMB 3150	Applications of	
	Quantitative Methods	
	in Business	3
MAN 3503	Managerial Decision	
	Making	3
MAN 4504	Operations	
	Management	3
MAN 3701	Business and Society	3
MAN 3602	International Business	3
MAN 4722	Policy Analysis	3
WATE 4/22	Folicy Arialysis	J

1This course should not be taken by

students majoring in accounting. (See model schedule for accounting majors).

Major: Required Credits 12-24 Approved Ejective Credits 3-12

Note: All electives must be approved in advance by the Counseling Office.

Business Core Courses

As noted under CBA General Information (Academic Standards), undergraduates must pass a Readiness Examination in Accounting as a prerequisite for registration in ACG 3301. The core courses and prerequisites in the College are as lollows:

FIN 3403 Financial Management -ACG 3021 or its equivalent.

MAN 3503 Managerial Decision Making - College algebra, statistics, and QMB 3150 or its equivalent. MAR 3023 Marketing Management

QMB 3150 Application of Quantitative Methods in Business - STA 3132, or its equivalent, and college algebra.

CGS 3300 Introduction to Information Systems - computer programming proliciency requirement or COP 2172.

ACG 3301 Accounting for Planning and Control - at least six semester hours of introductory financial and managerial accounting with a grade of 'C' or higher; or ACG 3021 with a grade of 'C' or higher; and successful completion of a readiness examination.

MAN 4504 Operations Management - MAN 3503 and QMB 3150.

MAN 3025 Organization and Management

MAN 3701 Business and Society -ECO 3021 and ECO 3011 or equivalent MAN 3602 International Business -ECO 3431.

ECO 3431 Applied Macroeconomics - ECO 3021 and ECO 3011 or equivalent

MAN 4722 Business Policy Completion of all core course requirements. Course should be taken in the student's last academic semester before graduation.

Master's Degree Information

Note: Several Master's degree program changes were under consideration at the time the catalog went to pross. Please contact the appropriate graduate counselor for the latest information.

All students taking graduate business courses must be admitted to a business graduate program or have prior approval

from the appropriate graduate counselor.

The Graduate Programs of the College offer the student advanced professional education for managerial careers in business and government. At the Master's level, the degrees of Master of Accounting, Master of Business Administration, Master of International Business, Master of Science in Finance, Master of Science in Management Information Systems, and Master of Science in Taxation are offered.

The Master of Business Administration degree is designed to give students a general management education and to assist them in preparing for their chosen careers. More specialized preparation is available in the other programs.

Admission Requirements

To be eligible for admission to the graduate programs in the College, the applicant must:

- Satisfactorily meet the general University requirements for admission to graduate programs.
- Hold a Bachelor's degree from a regionally accredited college or university.
- 3. Show high promise of success in graduate studies as determined by the faculty. Admission to all the College graduate programs will be based upon a combination of the Graduate Management Admission Test (GMAT) and the upper-division grade point average.
- A. A foreign student must obtain a minimum score of 500 on the TOEFL, or an equivalent score on a comparable examination. See General Admission requirements for Foreign Students (undergraduate and graduate) in the Admission section of the catalog.
- Be in good standing with previous colleges or universities attended.

Application Procedures

A student planning to enroll in graduate studies in the College must complete the following steps and meet the stipulated requirements:

- Submit a Graduate Application for admission to the Admissions Office Application Forms will be mailed upon request. The admission process may require as long as two months after receipt of the application, depending upon the time involved in the receipt of transcripts and test scores.
- 2. Have a copy of the official transcripts of all previously earned college or university credits sent from the applicant's former institution(s) to the Admissions Office. (Copies submitted directly by applicants are not accepted

for application purposes).

 Submit scores on the Graduate Management Admissions Test (GMAT), administered nationally by the Educational Testing Service (Box 966, Princeton, New Jersey 08540).
 Registration forms will be mailed upon request.

Degree Requirements

To be eligible for a Master's degree, a student must:

- Satisfy all University requirements for a master's degree.
- 2. Meet the requirements of an approved program of study. This program of study is developed by the student and his or her graduate counselor and must be approved by the appropriate Department Chairperson.
- 3. (a) Complete a minimum of 36 semester hours (depending on program) of graduate level coursework, for the Master of Science in Finance and Master of Science in Management Information Systems
- (b) Complete a minimum 42 semester hours of graduate level coursework, for the Master of Business Administration or 39 semester hours for the Master of International Business.
- (c) Complete a minimum of 30 semester hours of graduate level coursework for the Master of Accounting or the Master of Science in Taxation programs.
- Earn a minimum average of 'B'
 (3.0) in all approved courses in the student's program of study.

No courses in which a grade below 'C' is earned may be counted toward the M.Acc., MBA, MIB, MSF, M.S. in MIS, or MST degrees. However, all approved work taken as a graduate student will be counted in computing the grade point average, including courses graded 'D' or 'F', and any approved undergraduate courses taken while a graduate student.

Transfer Credit

Students may receive permission to transfer up to a maximum of six semester hours of graduate credit toward their degree program, provided that: (1) the courses were taken at the graduate level at an accredited college or university; (2) the courses were not introductory or 'survey' in nature; (3) grades of 'B' or higher were earned; (4) the courses are judged by the faculty advisor, the Department Chairperson, and the Dean to be relevant to the student's graduate program; (5) the credits were not used toward another degree; and (6) the credits were completed within six years immediately preceding the awarding of the degree.

Credits are not transferable until the student has earned 15 semester hours in the College graduate program. Students wishing to transfer to the College must be in good standing at their previous school or college.

Time Limit

All work applicable to the Master's degree, including transfer credit, must be completed within six years immediately preceding the awarding of the degree.

Change of Major

The graduate student who wishes to change his or her program major must submit a Graduate Change of Major request to the Admissions Office and meet the admission and program requirements in effect at the time of the change of major.

Master of Business Administration (MBA)

The objective of the Master of Business Administration (MBA) program is to provide the student with a general background in the concepts and processes of administration. The MBA program is aimed at developing a management generalist who has a breadth of knowledge and understanding, and who is oriented toward pragmatic problem solving.

The courses leading to the MBA degree are designed to provide a breadth of experience in the tools and concepts of business administration. The total MBA program consists of 42 semester hours of the MBA courses. The courses are categorized by area. with a regular MBA course and Substitute (s) for each category, If a student tests-out or is counselled out of the 'regular' course(s), he or she must select one of the Substitutes in the same category. To be eligible for testing or counselling out of a 'regular' course, the student should have previously completed at least three courses in that functional area at the upper division level with above-satisfactory grades. The general business electives may be taken from any of the 6000 level offerings in Business Administration (excluding prerequisites). Students whose background in accounting, statistics, or economics is evaluated to be inadequate will be required to complete MAN 6028 (Organization and Management Processes), ACG 6005 (Financial Accounting Analysis), MAR 6716 (Marketing Management), QMB 6603 (Quantitative Methods in Management), ECP 6705 (Managerial Economics) or COP 2172 (Basic

Programming for Business), or both, as prerequisites to the program.

MBA Program

Systems Planning

Research

(On substitute courses, see the guidelines under program description.) Area: Information Systems Course: MAN 6830 Organization Information Systems¹ Substitute: MAN 6833 Information

Area: Quantitative Methods2 Course: MAN 6721 Managerial Decision Making

Substitute: QMB 6805 Deterministic Models for Management Analysis

Area: Accounting3 Course: ACG 6308 Accounting for **Decision Making** Substitute: ACG 6346 Seminar in Managerial Accounting I ACG 6135 Seminar in Financial **Accounting Theory** ACG 6696 Studies in Auditing TAX 6065 Income Tax Planning and

Area: Finance (Corporate) Course: FIN 6428 Financial Management Substitute: FIN 6246 Financial Markets FIN 6516 Security Analysis FIN 6806 Theory of Finance and Institutions

Ares: Operations Course: MAN 6501 Operations Management Substitute: MAN 6585 Productivity Management

Area: Marketing Electives Course: Any 6000-level MAR prefix course excluding MAR 6716

Area: Management Course: MAN 6245 Organizational Behavior MAN 6204 Organization and Management Theory (no substitute Substitute: MAN 6112 Group Processes in Organizations MAN 6405 Labor Relations MAN 6601 International Management

Area: Economics Course: ECP 6715 Macro-Economic Forecasting for Management Substitute: FIN 6435 Forecasting **Business Conditions**

Ares: Environment Course: GEB 6405 Business and Legal Environment Substitute: BUL 6124 Survey of **Business Law** MAN 6635 International Business Policy Area: Policy Course: MAN 6726 Policy Analysis (no Substitutes)

International Business Elective: One 6000-level international course taught in the College of Business Administration. General Business Electives: Two 6000level business courses or other approved graduate level courses.

Prior to enrollment in QMB 6603 or MAN 6830, each student must demonstrate computer programming proficiency. This requirement may be completed in any of the following ways:

 Successful completion of a computer programming course at the undergraduate level.

2. Successful completion of COP 2172, Basic Programming for Business.

3. Self-study or work experience. ²For the student without STA 3132 and QMB 3150 (college algebra and statistics), QMB 6603 must be taken prior to MAN 6721. For the student without ACG 3021 and

ACG 3301 (financial and managerial accounting) background, ACG 6005 must be taken prior to ACG 6308 and FIN 6428.

Note: The first three categories consisting of information systems, quantitative methods and accounting must be satisfied prior to taking any other MBA courses. The policy course must be scheduled for the last semester of MBA study.

Doctoral Degree Information

The doctoral program in Business Administration is a selective one leading to the Ph.D. degree.

The program emphasizes the development of research and teaching skills to ensure that graduates acquire the credentials necessary for placement in leading academic institutions.

Each doctoral student's program of study is tailored to mesh faculty and student interests and to maintain a high lovel of interaction among the students and the laculty

The program requires three to four years of full-time study, including a year to a year-and-a-half of dissortation research. Core business courses are required of all doctoral candidates during the first year of study, the second year consists of courses in a major area of concentration. The firs year is geared toward breadth of knowledge, whereas the second year develops students' depth of knowledge in a particular area of concentration.

Major areas of concentration include

Accounting

Decision Sciences and Information Systems

Finance International Business Management Marketing

Admission Requirements

Applicants are considered from students with a wide variety of educational backgrounds, such as business, liberal arts and the sciences. Those who are accepted into the program show strong evidence of ability and scholarly interests

Potential students should provide the following:

1. Completed application form and processing fee.

2. Three letters of recommendation from academic sources

3. Official transcripts from all undergraduate and graduate coursework.

4. A report of the Graduate Management Admissions Test (GMAT) score from the Educational Testing Service (the average GMAT score for entering students is above 600).

5. International students whose native language is other than English must also submit an official report of their score on the Test of English as a Foreign Language (TOEFL) from the Educational Testing Service.

Admission to the program is considered as soon as all the required documents are received. The Doctoral Program in Business Administration at the University encourages all qualified persons to apply and admits applicants without regard to sex, age, race, color, creed, handicap, marital status, national or ethnic origin.

Degree Requirements

General degree requirements for all doctoral candidates are:

- 1. Demonstration of practical knowledge of research methods and procedures in the areas of statistics, oconometrics, and behavioral sciences; a research project is conducted at the and of the first year of study to ensure that all candidates have acquired the relevant skills.
- Successful completion of a comprehensive examination at the end of the second year in a major area of concentration to ensure that students are prepared to begin dissertation rosearch.
- 3. Successful completion and oral delense of doctoral dissertation

Financial Aid

Applicants to the doctoral program may request financial aid by completing the

form included with the application. Research and teaching stipends are available. The stipend may include both cash award and waiver of tuition, depending upon the applicant's qualifications.

School of Accounting

Lewis F. Davidson, Professor and Director

Lucia S. Chang, Professor and Associate Director Rolf Auster, Professor William L. Campfield, Professor

Emeritus

Jack L. Carter, Assistant Professor

Manuel Dieguez, Instructor

Mortimer Dittenhoffer, Professor

Mortimer Dittenhotter, Professor Donald W. Fair, Instructor and Associate Dean

Irving L. Fantl, Professor Emeritus Miin H. Guo, Assistant Professor Georgina Garcia, Lecturer Rosalie C. Hallbauer, Associate Professor

Judith A. Harris, Visiting Assistant Professor

Harvey S. Hendrickson, Professor David Lavin, Associate Professor Myron S. Lubell, Associate Professor Kenneth S. Moat, Professor

Charles A. Nickerson, Professor and Dean Leandro S. Nunez, Lecturer Robert B. Oliva, Associate Professor

Fellx Pomeranz, Distinguished Lecturer, and Director, Center for Accounting, Auditing, and Tax Studies

Cralg E. Reese, Professor Leonardo Rodriguez, Professor Paul J. Schlacter, Assistant Professor John T. Sennettl, Professor Richard H. Wiskeman, Jr., Lecturer John Wrleden, Assistant Professor Dorla Yeaman, Associate Professor

Graduates of the Bachelor's Degree program in accounting are being prepared for positions in public, private, or governmental accounting. For Public Accounting, the requirement for taking the CPA examination in Florida includes an additional 30 semester hours beyond the baccalaureate degree. See Florida CPA requirements detailed below. In addition, the accounting program provides students seeking advanced business or law degrees with an appropriate foundation for those studies.

The accounting program consists of three parts: the general business core (33 semester hours); the concentration in accounting (24 semester hours); and electives (nine semester hours, including six semester hours of business law). All courses in 'concentration in accounting' must be taken at the University i.e.,

courses in accounting are not transferable unless approved in advance by the School of Accounting.

Accounting majors must complete MAC 3233 (Calculus) and PHI 3100 (Logic) as prerequisite courses, or present acceptable coursework in the areas of calculus and logic at the lower division level.

Model Schedule - Accounting Major

The following is a model schedule (with several options) that must be followed by the typical full-time student who (1) has completed all of the freshman-sophomore requirements, and (2) wishes to complete the undergraduate accounting program. Deviations from this schedule must be approved by the Director of the School of Accounting. (The student possessing a non-business baccalaureate degree should consult the School of Accounting for alternative programs that meet the Florida State Board of Accountancy requirements).

ACG 3301	MAR 3023
FIN 3403	ACG 4101
QMB 3150	MAN 3503
ECO 3431	BUL 4111
MAN 3025	
Semester 3	Semester 4
ACG 4111	TAX 4001
ACG 4341	ACG 4651

Semester 1

Semester 2

BUL 4112	MAN 3602
MAN 3701	MAN 4504
,	
Semester 5	Semester 6
TAX 4011	MAN 4722
ACG 4201	ACG 4401
Elective	

Note: Pre-core deficiencies must be completed in Semester 1 of the third year.

Policy for Continuation as an Accounting Major

- Students must earn a minimum grade of "C" in all 4000 level accounting and tax courses
- 2. Students not achieving a grade of "C" or better in two enrollments in any course will be dropped from the Accounting program. In extenuating circumstances, continuation in the program may be possible after a written appeal to the Continuation and Retention Committee. Appeals should be directed to the Director of the School of Accounting. A student may have no more than three re-enrollments.
- Students who wish to take more than two accounting and tax courses in

one semester must submit a written appeal to the Continuation and Retention Committee.

- Prerequisites for all accounting and tax courses are strictly enforced.
- Students taking accounting and tax courses are expected to seek counsel from Accounting advisors prior to registration.
- 6. Students working more than 20 hours per week are strongly urged to discuss with an Accounting advisor the composition of their schedule and number of courses they should take.

Master's Degree Programs in Accounting

The School of Accounting offers two graduate programs, Master of Accounting and Master of Science in Taxation, Students seeking admission to either program should have an undergraduate degree in accounting, or the equivalent, from a regionally accredited college or university. Equivalency in the common body of knowledge in business and accounting will be determined by the Dean and the Director of the School of Accounting. The Director must also approve the program of study before a student with deficiencies may take courses in either program.

Graduate Student Advising and Preregistration

All students taking graduate accounting and tax courses must be fully admitted to a graduate accounting program or have written permission from the Director of the School of Accounting. Registration for all graduate accounting and tax courses must be made through the School of Accounting Graduate Advisor. All graduate students are preregistered during a two-week period commencing three weeks prior to official university registration.

Master of Accounting

The M.Acc. program is designed to prepare students for entry and accelerated advancement in the accounting profession and to provide the additional formal education needed by persons already in accounting and other fields seeking either a career change or advancement, or both.

Due to varied career opportunities, the M.Acc. program allows for specialization in Managerial or Financial Accounting. The Managerial Accounting track is designed for the student who aspires to be an officer in a business corporation, a governmental unit, or a not-for-profit organization. The Financial Accounting track is designed for the student who aspires to be a Certified

Public Accountant and leader in the public accounting profession. Other specializations are possible with the approval of the Graduate Counselor for accounting and tax and the Director of the School of Accounting.

A student who earns an M.Acc. will quality for the Certified Public Accountant Examination or, for those who took the CPA examination prior to August 2, 1983, to receive a certificate as a Certified Public Accountant. The relevant Florida Statute follows the program of study.

Master of Accounting-Government Accounting and Auditing

This graduate program track is designed to prepare students for a career in government entities at federal, state or municipal levels and educate public accountants who must audit the 80,000 government units. The curriculum includes not only the technical espects of government accounting and auditing, but also the essential background and environmental issues that are needed to make the professional more efficient and effective.

Required Courses (4 courses: 12 semester hours)

ACG 6505	Governmental General	
	and Cost Accounting	_
	Functions	3
ACG 6515	The Environment of	
	Governmental	
	Accounting	3
ACG 6517	Audit of Governmental	
	Entities	3
ACG 6546	Advanced Governmenta	1
	Planning and	
	Budgetary Accounting	
	with Cases	3

Additional Courses (4 courses 12 semester hours)

ACG 6515	Advanced Governmental Accounting 3
ACG 6596	Accounting for Specialized Governmental and Other Non-Profit Entities 3
ACG 6545	Analysis of Governmental Financial Reports 3
ACG 6518	Historical and Comparative Governmental Accounting- Seminar 3
ACG 6519	Contemporary Issues in Governmental Accounting- Seminar 3

ACG 6625 EDP Auditing- Concepts and Procedures 3

Electives (2 courses: 6 semester hours) From among all 6000 level course offerings. At least one course must be in accounting, approved by the graduate advisor.

M.Acc. Program of Study

Required Cour	ses: 18 semester hours	
ACG 6135	Seminar in Accounting	
	Theory I	3
ACG 6346	Seminar in Managerial	
	Accounting I	3
TAX 6065	Income Tax Research	3
ACG 6696	Studies in Auditing	3
ACG 6885	Accounting Research	
	and Reporting	3
ACG 6506	Governmental and	
	Institutional	
	Accounting	3

Additional Courses: three courses (nine semester hours) relating to concentration.

Elective: one course (three semester hours) approved by the Graduate Advisor.

ACG 6255	International Accounting 1,2	3
ACG 6405	Seminar in Accounting Information Systems 11,2	3
ACG 6415	Seminar in Accounting Information Systems II ¹	3
ACG 6835	Behavioral Accounting 1,2	3
ACG 6845	Accounting and Quantitative Methods 1,2	3
ACG 6356	Seminar in Managerial Accounting II ²	3
ACG 6145	Seminar in Accounting Theory II ²	3
ACG 6625	EDP Auditing - Conception and Procedures)t 3
ACG 6675	Studies in Auditing II	3
ACG 6875	Evolution of Accounting Thought	3

¹Designed primarily for the Financial Accounting track

²Designed primarily for the Managerial Accounting track

Master of Science in Taxation

The M S T program is designed to prepare the student for either entry or advancement in the highly specialized area of taxation. The curriculum is floxible in order to provide the student with a background in the various aspects of the tax area. Students, in consultation with the Graduate Counselor for accounting and tax programs and the Coordinator of the Tax Program, may develop their own specializations. The final program of studies must be approved by the Graduate Counselor for accounting and tax and the Director of the School of Accounting.

M.S.T. Program of Study

Required Cor	urses: 12 semester hours	
TAX 6065	Income Tax Research	3
TAX 6105	Taxation of	
	Corporations I	3
TAX 6405	Estate and Gift	
	Taxation	3
TAX 6875	Current Developments	•
	in Taxation	3

Additional Courses: four courses (12 semester hours) in tax

Electives: two non-tax courses (six semester hours), at least one must be in accounting, approved by the Graduate Advisor.

TAX 6876	Transactions in	
	Property	3
TAX 6835	Taxation of Deferred	
	Compensation	3
TAX 6805	Tax Accounting Theory	
	and Procedures	3
TAX 6115	Taxation of	
	Corporations II	3
TAX 6205	Partnership Taxation	
	and Tax Shelters	3
TAX 6415	Fiduciary Accounting	
	and Taxation	3
TAX 6877	Seminar in Taxation	3
TAX 6445	Estate Planning	3
TAX 6505	International Taxation I	3
TAX 6515	International	
.,	Taxation II	3
		_

Florida CPA Requirement

Completion of a Bachelor of Business Administration degree program with emphasis in accounting, while available, will not be accepted by the Flonda State Board of Accountancy as fulfilling requirements to sit for the Certified Public Accounting Examination after August 1, 1983

The law relating to the practice of public accounting (Chapter 473, Florida Statutes 1979) provides in Rule 21A 27 02, Concentrations in Accounting and Business, that

1 For purposes of Section 473 307,F.S., if application for the Uniform CPA Examination is made prior to August 2, 1983, an applicant must have a baccalaureate dogree from an accredited college or university with a major in accounting or its equivalent, with a concentration in accounting and

business. A concentration in accounting and business is defined as an educational program that includes at least 18 semester hours or 27 quarter hours, or the equivalent in accounting education above the elementary level and 27 semester hours or 40 quarter hours, or the equivalent, in general business education. In order to meet the provisions of F.S. 473.307, the application must be filed, completely and approved and show on its face that all educational and other requirements have been met prior to August 2, 1983.

2. For purposes of Section
473.307, F.S., if application is made after
August 1, 1983, an applicant must have
at least a baccalaureate degree, or its
equivalent, from an accredited college or
university with a major in accounting, or
its equivalent, plus at least 30 semester
hours or 45 quarter hours, or the
equivalent from an accredited college or
university, in excess of those required for
the baccalaureate degree including a
total educational program with a
concentration in accounting and
business as follows:

(a.) 36 semester or 54 quarter hours in accounting education above elementary level which shall include not less than: 12 semester or 18 quarter hours in financial accounting which may include cost accounting, 6 semester or 8 quarter hours in auditing (after November 30, 1985, system courses and internal control courses do not meet this requirement) and 6 semester or 8 quarter hours in taxation; and not more than 3 semester or 4 quarter hours may be in internship programs which may be applied to the 36 hours in accounting but not auditing, financial accounting or taxation. Further, any remaining internship credits if otherwise acceptable would be applied to the general business requirement, and

(b.) 39 semester or 58 quarter hours in general business education which shall include not less than 6 semester or 8 quarter hours in business law. Vocational and clencal type courses will not count either toward the accounting requirement set forth in Rule 21A-27.02(2) or this general business education requirement. Specialized industry courses will be acceptable as general business courses but not as accounting courses unless as defined in Rule 21A-27.02(2) they have an accounting prefix. Further, such courses, in order to qualify must be certified by the chairman of the school or college's accounting department as qualifying for general business credit. Written or oral communication courses will qualify for the general business requirement if they have a business or accounting prefix or if they are reflected in the catalog in the school or college as relating directly to

the school or college's business or accounting requirements. A maximum of 9 semester hours (13 quarter hours) of business oriented computer courses and 6 upper division semester hours (8 quarter hours) of statistics courses will be accepted for the purposes of meeting to the general business requirement.

3. For purposes of this rule, accounting hours other than elementary above the minimum requirement may be substituted for general business hours. Elementary accounting subjects shall not be accepted as general business education. All accounting courses for the purposes of Rule 21A-27.02(2) and at least 21 semester hours (32 quarter hours) of general business courses must be at the upper division level.

 Re-applicants whose original application for the CPA examination was approved prior to August 2, 1983 may elect to satisfy Rule 21A-27.02(1).

Note: All School of Accounting 6000-level courses, including those with a TAX prefix, have been approved by the Florida State Board of Accountancy as meeting the requirements for the additional credit hours required for the CPA Examination. With a carefully planned program of study, a student who earns either a M.Acc. or a M.S.T., will be qualified to sit for the Certified Public Accounting Examination, and upon successful completion of the examination be certified in the State of Florida. There is no additional experience required.

Decision Sciences and Information Systems

Daniel Robey, Professor and Chairperson Jack Gilman, III, Lecturer Sushil K. Gupta, Professor Peter J. Kirs, Assistant Professor Jerzy Kyparlala, Assistant Professor Tomislav Mandakovic, Associate

Elena Pernas, Instructor Rajlv Sabherwal, Assistant Professor Maung K. Seln, Assistant Professor Larry A. Smith, Associate Professor Eloisa Valencia, Instructor Eloisa Valencia, Instructor Peter J. Zegan, Lecturer

The Department of Decision Sciences and Information Systems offers coursework in the areas of Management Information Systems, Management Science, Production/Operations Management, and Business Statistics at both the graduate and undergraduate levels. Students may pursue at the undergraduate level a major in Management Information Systems; and

at the graduate level a Master of Science in Management Information Systems. The Department also offers a doctoral concentration in Information Systems.

Management Information Systems

Undergraduate Program in The undergraduate program in Management Information Systems (MIS) emphasizes the design, development, implementation, and use of information technology to solve organizational problems effectively. The program is designed to prepare graduates for entry-level positions in the profession of MIS, whether in user or in system departments. This program is a natural continuation for students who have completed a business data processing program at the lower division.

The MIS program is composed of the following three parts: Business Core: Twelve courses (36 hours). See General Business

Requirements.
Major Courses: Four courses (12 semester hours)

semester noon	9)	
ISM 4113	Systems Analysis and Design	3
ISM 4210	Data Base Applications	3
ISM 4151	Systems Management	3
ISM 4340	Organizational Impacts of Information Systems	3

Electives: Four courses (12 semester hours)

Electives should be taken from approved courses in Computer Science, Business, or other Departments. CGS 3403 COBOL for Non-Computer Science Majors or CGS 3403 Data Processing and COBOL, or equivalent, must be taken before ISM 4113.

CGS 3403 or CGS 3403 may be counted as an elective. CGS 3300 Introduction to Information Systems is part of the Business Core and may not be counted as an elective.

Master of Science Program

The Master of Science in MIS program emphasizes advanced study in the analysis, design, implementation and overall management of information systems in organizations. This program is designed to prepare graduates for positions of advanced responsibility in both systems and user departments. The program is a natural extension of undergraduate study in business or computer science. Students with other

backgrounds will normally require additional courses to satisfy the general College's requirements.

The M.S. in MIS program consists of

Prerequisites: Seven courses (21 semester hours)

courses in two areas:

3611163(6) 110013	,,	
CGS 3403	COBOL for Non- Computer Science Majors PASCAL	3
MAN 6028	Organization and Management Processes	3
ACG 6026	Accounting for Managers	3
MAR 6716	Marketing Management	3
QMB 6603	Quantitative Methods in Management	3
All of the	courses listed above ca	an

All of the courses listed above can be waived if they, or their equivalents, have been taken previously. Students may substitute C or a structured programming language (not FORTRAN or BASIC) for PASCAL.

Required Courses: Twelve courses (36 semester hours)

	•	
ISM 6106	Systems Analysis	3
MAN 6569	Managerial Decision Making	3
MAN 6726	Policy Analysis	3
ISM 6305	Information Systems Planning	3
ISM 6205	Data Structures and	
	File Processing	3
ISM 6105	Information Systems Analysis and Design	3
ISM 5405	Decision Support Systems	3
ISM 6045	Current Economic and Social Implications of Information Systems	3
MAN 6911	Research in Systems Development	3
MAN 6501	Operations Management	3
FIN 6428	Financial Management	3
MAN 6830	Organization Information Systems	3

A minimum of 36 hours is required for graduation, this may be reduced to 30 hours for students with a graduate degree in Business Administration or related area. Graduation requirements include a minimum overall GPA of 3.0. Courses with a grade below a "C" will not be accepted for graduate credit.

Finance

Arun Prakash, Professor and

Chairperson
Robert Bear, Professor and Director,
Broward Programs

William R. Beaton, Professor Chung-Hao Chang, Assistant Professor

Robert T. Dalgler, Associate Professor Krishnan Dandapani, Assistant Professor

Karen Duhala, Assistant Professor Shahld Hamld, Assistant Professor James Kays, Instructor

James Keys, Instructor
Simon Pak, Associate Professor
All Parhizgari, Associate Professor
Emmanuel Rousaakis, Professor
George B. Simmons, Distinguished
Service Professor

Michael Sullivan, Assistant Professor William Welch, Associate Professor and Associate Director, Center for Banking Finance

John S. Zdanowicz, Professor and Director, Center for Banking and Finance

The Department of Finance offers an undergraduate major in Finance, and a Master of Science in Finance (M.S.F.).

Undergraduate Finance Major

The Finance program leading to the BBA degree is designed to give the undergraduate student managerial finance skills in the areas of banking, corporate finance, investments, and financial markets. The program consists

- 36 semester hours of general business core courses
- 2. 12 semester hours of finance core courses:

FIN 3414 Intermediate Finance
FIN 4303 Financial Markets and
Institutions
FIN 4324 Commercial Bank
Management
FIN 4502 Security Analysis
3 Nine semester hours of linance

 Nine semester hours of finance electives selected from any 4000 or 5000 level FIN prefixed courses.

4. A three semester hour free elective course. (International Business double majors are required to complete FIN 4604 International Finance, MAN 4600 International Management, and two additional 4000 and 5000 level International Business courses)

Master of Science in Finance

This graduate program leading to the degree of Master of Science in Finance (MSF) is offered primarily for students with an undergraduate business degree who want to concentrate in Finance at the graduate level. The MSF program is designed to extend analytical skills and

decision-making abilities in the solution of problems related to obtaining and utilizing funds. Graduates will also have a sound working knowledge of current developments and opportunities as they pertain to financial institutions, capital markets, and the corporate enterprise.

Content and Structure

The program has a minimum of 36 semester hours (12 courses).

Group 1 Common Body of Knowledge All or some of the common body courses can be waived (without substitution) depending on the student's prior education. Students with a recent degree in Business Administration from a regionally accredited university should be able to waive most or all of the Common Body Courses. The areas covered under common body of knowledge are financial and cost accounting, legal environment in business, economics, financial management and policy, operations management, managerial decision making, organizational information systems, marketing, and organizational theory. If a student is deficient in any of these areas, the student will be required to fulfill the requirement by taking the appropriate courses. As part of the common body for Finance majors. students will be required to take FIN 6428 (Financial Management); this requirement will be waived if the student has satisfactorily completed two undergraduate Corporate Finance courses.

Group 2 - Finance Core Courses
All MSF- Finance students are required to take the following courses:

FIN 6246 Financial Markets and Institutions
FIN 6516 Security Analysis
FIN 6636 International Finance
FIN 6806 Theory of Finance

Group 3 - Finance Electives

Nine hours of approved Finance electives, other than those mentioned in Group 1 and Group 2, must be completed

Group 4 - Five Related Electives
Students will be required to select fi

Students will be required to select five 6000 level courses from concentrations in business, economics, computer science, and other related areas Students will be permitted, but not required, to concentrate in one area These electivos must be chosen with prior approval of the MSF program advisor.

The 36 semester hours requirement may be reduced to 30 for students who possess an accredited Master's Degree

in Business Administration (this would result in the reduction of two related electives). Up to two graduate courses may be transferred in from another accredited school, even if no advanced degree was obtained.

Management and International Business

Dana L. Farrow, Professor and Chairperson

Robert Amann, Assistant Professor Constance S. Bates, Associate Professor

Leonard H. Chusmir, Associate Professor

Gary Dessler, Professor Herman Dorsett, Associate Professor Earnest Friday, Assistant Professor Ronald Gilbert, Associate Professor Jerry Haar, Associate Professor Richard M. Hodgetts, Professor William T. Jerome, Distinguished University Professor

University Professor
Willabeth Jordan, Instructor
K. Galen Kroeck, Associate Professor
and Director, Doctoral Studies

Jan B. Luytjea, Professor Karl O. Magnusen, Associate Professor

Modesto A. Maldique, Professor and University President Joan Mills, Associate Professor Eleanor Polater, Instructor William E. Renforth, Professor Leonardo Rodriguez, Professor Ronnle Silverblatt, Associate Professor

Christine Specter, Assistant Professor George Sutila, Associate Professor William M. Taggart, Professor Enzo Valenzl, Professor and Associate Dean

The Department of Management and International Business offers programs of study at the Bachelor's level in General Management, Personnel Management, and International Business.

General Management and Personnel Management Majors

The student is given wide latitude either to specialize in one particular area, or to select from courses on a more general level of professional education. The curriculum is designed to allow students to prepare for employment in business or other profit organizations. The emphasis is on developing immediately applicable skills in management within a broader framework of general concepts and theory. Flexibility is allowed and students are permitted to take up to 12 hours of

electives in other fields, particularly in economics, mathematics, and psychology in 3000- and 4000-level courses not a part of the College's precore. Electives in fields other than these must have the prior approval of the Department Chairperson. The Management major requires 12 semester hours of courses listed with the Department at the 4000 level. Note that not all courses with an MAN prefix are Management courses.

Major courses for Management students in specific subject areas:

Personnel Management Major

(Select 4 of 6) Collective Bargaining MAN 4401 Union-Management MAN 4410 Relations MAN 4301 Personnel Management MAN 4320 Personnel Recruitment and Selection MAN 4322 Personnel Information Systems MAN 4330 Wage and Salary Administration.

General Management Major

MAN 4142 Managerial Decision Styles

and any three other Management or Personnel Management courses listed with the Management and International Business Department. (Students are urged to confer with their academic counselor regarding eligible courses.) Note: Not all courses with an MAN prefix are Management courses.

Note: Elective courses outside the CBA must be taken in the Departments of Economics, Mathematical Sciences, or Psychology. Exceptions may be permitted only with the approval of the Department Chairperson. Elective courses taken in other departments must be taken for letter grade only.

International Business Major

The Department of Management and International Business offers a second undergraduate major in International Business to students with other majors in the College of Business Administration.

The objective of the undergraduate International Business major is to provide eligible students with an intensive, in-depth study of the international dimension of business operations. Students are required to take the following courses, in addition to the program for the functional major:

 MAN 4600 International Management 2. Three of the following courses:

ACG 4251	International Accounting (required for
	Accounting IB majors)
FIN 4604	International Financial
	Management (required
	for Finance IB majors)
MAN 4671	Special Topics in
	International Business
MAN 4690	Independent Study in
	International Business
MAR 4243	International Marketing
	(required for Marketing
	IB majors)
MAR 4244	Export Marketing
ECO 4701	World Economy
ECO 4733	Multinational

Corporations

Master of International Business (MIB)

The Department offers a graduate degree, the Master of International Business, and the graduate level Certificate in International Business. (See Certificate Programs.) The Master is International Business is designed to prepare students who seek a career in some aspect of global business. The past few decades have seen a rapid expansion in the field of international trade and investments and no business entity today is exempt from worldwide competitive forces. This expansion has resulted in the development of interdependent economic systems with all the political ramifications of such interdependence. The business person of the future must not only have a keen awareness of domestic business practices, but foreign business strategies as well. Furthermore, there must be a global political awareness and sensitivity in order to develop viable corporate strategies.

The global character of the program is not only to be found in the curriculum, but within the multinational composition of the students enrolled in the program. Qualified foreign students are actively recruited and the program seeks the active participation of foreign as well as domestic corporations though lecture by executives of these corporations and internships. While in some respects the Master's in International Business parallels the MBA, the program is unique with an eye on the emerging global system. The program consists of 39 semester hours of courses. Students who have not previously taken business courses will be required to take a preparatory program in accounting (ACG 6005), economics (ECP 6705), statistics (QMB 6603), business and legal environment (GEB 6405), management (MAN 3025). and marketing (MAR 6716). A

knowledge of a computer language must be demonstrated, otherwise COP 2172 Programming in BASIC must be taken.

In addition to the required courses listed below, a student must demonstrate basic reading and speaking proficiency in one major world commercial language other than English in order to graduate. ACG 6308 Accounting for Decision

Making

MAN 6207 Organization and Management Theory FIN 6428 Financial Management MAR 6246 International Marketing The World Economy

MAN 6721 Managerial Decision Making

ECO 5701

MAN 6608

International Business MAN 6713 Environment

International Business

FIN 6636 International Finance MAN 6501 Operations Management International Business MAN 6635

Policy MAN 6830 Organizational

Information Systems World Politics INR 6205

selected by the student with his or her advisor from other Marketing course offerings. It is suggested that students concentrate in a specific area and take, for example:

1. Advertising Concentration

Advertising Management MAR 4303 MAR 4344 Advertising Campaign

Management 2. Sales Concentration Personal Selling

MAR 4103 MAR 4403 Sales Management 3. Retailing Concentration

Retailing Management MAR 4153 Cases in Retailing MAR 4154 Management

4. International Concentration MAR 4243 International Marketing Export Marketing MAR 4244 5. Distribution Concentration MAR 4203 Marketing Channels

Marketing majors, however, may choose courses from any other undergraduate marketing offenings or any mix of courses.

Transportation Logistics

MAR 4213

Approved Electives: Marketing majors may select any 4000-level business course as an elective. With the prior approval of the Counseling Office, certain non-business courses also may be used as electives (depending upon their relevance to the student's academic program and career objectives).

Marketing and Environment

Barnett A. Greenberg, Professor and Chairperson

Yao Apasu, Associate Professor Lucetta Comer, Assistant Professor Anna Flediar, Instructor and Assistant Dean

Dennis J. Gayle, Associate Professor Jonathan N. Goodrich, Associate Professor

Robert Hogner, Associate Professor Carl Kranendonk, Instructor Henry A. Laskey, Assistant Professor J.A.F. Nicholls, Associate Professor Merta Ortiz, Associate Professor Ved Prakash, Assistant Professor Lynda Raheem, Instructor Sydney Roslow, Professor and

Associate Dean, North Miami Campus Bruce Seaton, Associate Professor

Philip Shapherd, Associate Professor Richard R. Still, Professor John Tsallkis, Assistant Professor

Undergraduate Marketing Major

The Marketing Major requires 15 semester hours of senior (4000) level marketing course work, of which the following nine hours are required

MAR 4503 MAR 4613 MAR 4713 Consumer Behavior Marketing Research Cases in Marketing Management

The remaining six hours are

Certificate Programs

General Information

The overall purpose of the Certificate Programs is to provide practicing managers with advanced training in the techniques and methods pertinent to their areas. The programs are for both degree and non-degree seeking students, and are available in the areas of Banking, Insurance, International Bank Management, International Business, Savings and Loan, and Marketing A Certificate is awarded upon successful completion of each program

Students seeking to enroll in the undergraduate Insurance, or Marketing Certificate Programs must meet upper division College of Business Administration admission requirements Students wishing to enter the Banking. International Bank Management. Inturnational Business, or Savings and Loan Certilicate Programs must meet all prorequisites for courses in those respective programs. Please contact the Business Counseling Office at 554-2781 for application details. In all cases, students must apply to, and be accepted into the various Certificate Programs.

Upon successful completion of the appropriate course work, and upon application by the student to the appropriate department, a Certificate of Completion will be awarded.

Advanced Certificate in Accounting

The purpose of the certificate program is to provide a structured program of graduate level instruction for those who do not wish to enroll in a graduate degree program; who need to satisfy mandatory continuing professional education requirements of any state; and who need to satisfy postbaccalaureate course credits to qualify for the CPA in Florida or any other state requiring a lifth year of education to sitting for the CPA examination.

Admission

To be admitted to the certificate program, a student must have graduated from an accredited university degree program in accounting, or be a graduate of any other business discipline, provided that the student's transcript shows a completion of at least nine semester hours in accounting courses beyond the principles level with grades of 'B' or higher. Each student's transcript will be evaluated by an advisor to ensure that all deficiencies are satisfied.

Students applying for admission to the certificate program must submit current transcripts from all colleges or universities attended

The certificate program consists of ten courses selected from the list below. However, students are allowed to attend classes in the program without completing the entire certificate program. None of these courses will be transferable for graduate credit in College of Business Administration degree programs

Required Courses: (30 semester housel

nours)		
ACG 5175	Issues and Problems	
	Accounting for Nonpro Entitles	3
ACG 5395	Seminar in Manageria	al .
	Accounting	3
ACG 5656	Operational Auditing	3
ACG 5657	Systems Auditing	3
ACG 5695	Seminar in	
	Accounting	3
ACG 5805	Seminar in Financial	
	Accounting	3
ACG 5837	International Dimensi	ons
	of Accounting and	
	Auditing	3

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ACG 5695	Statistical Methods in	
	Accounting and	_
	Auditing	3
ACG 5005	Standards and	
	Principles of Financial	_
	Accounting	3
ACG 5356	Advanced Managerial	
	Accounting	3
ACG 5386	Controllership	3
ACG 5905	Independent Study in	
	Accounting and	
	Auditing	3
ACG 5895	Special Topics in	
	Accounting and	
	Auditing	3
BUL 5105	Legal Environment of	
	Business	3
BUL 5666	Accountant's Liability	3
BUL 5665	Law for Accountants	3
TAX 5406	Taxation of Estates	
	and Trusts	3
TAX 5065	Taxation Research	
	and Reporting	3
TAX 5105	Corporation Taxation	3
TAX 5516	International Dimen-	
	sions of Taxation	3
TAX 5726	Tax Planning	3
TAX 5875	Seminar in Taxation	3
TAX 5904	Independent Study in	-
	Taxation	3
TAX 5936	Special Topics in	-
	Taxation	3
	iunalion.	_

Banking Certificate

The CIB (Certificate in Banking) is designed for practicing bank managers and bank employees. The core program consists of four undergraduate or graduate Finance courses. Upon successful completion of the four course sequence, a Certificate signed by the Dean of the College of Business Administration will be awarded. Participants in the CIB Program must meet certain admission requirements. In general, those intending to take undergraduate level courses must have an Associate of Arts Degree or its equivalent, and must meet the other lower division preparation requirements of the College, Participants planning to take graduate level courses must hold a Bachelor's degree, submit a satisfactory score on the Graduate Management Admissions Test, provide transcripts of all undergraduate work, and meet all admission requirements of the College's graduate programs.

Specific program requirements for the Certificate in Banking program:

FIN 3414	Intermediate Finance	3
	or	
FIN 6426	Financial Management	
	Policies	
FIN 4303	Financial Markets and	
	Institutions	3
	or	
FIN 6246	Financial Markets and	
	Institutions	

FIN 4324	Commercial Bank Management	3
	or	
FIN 6315	Commercial Banking	
FIN 4345	Credit Analysis and	
	LoanEvaluation	3
	or	

Applicants who are interested in pursuing a Master's degree in Finance should take FIN 6426, FIN 6246, FIN 6315, and FIN 6346 rather than FIN 3414, FIN 4303, FIN 4324, and FIN 4345

Credit Analysis

FIN 6346

International Bank Management Certificate

The Certificate in International Bank Management (CIBM) is designed to train existing and future bankers in the areas of international banking policy, practice, and technique. Its interest is to provide an interface between the domestic and international side of banking for bank managers.

Participants in the CIBM must meet the admission requirements listed for the Certificate in Banking Program.

Intermediate Finance 3

Required Courses

EIN 3/1/

FIN 3414	or	J
FIN 6426	Financial Management Policies	
FIN 4324	Commercial Bank Management or	3
FIN 6315	Commercial Banking or	
FIN 6325	Current Issues in Commercial Banking or Credit Analysis and Loan Evaluation or	
FIN 6345 FIN 4604	Credit Analysis International Financial Management or	3
FIN 6636 FIN 4615	International Finance International Banking or	3
FIN 6625	International Bank Management	
Applicants with	a Rachalar's Dogram	

Applicants with a Bachelor's Degree who are interested in pursuing a Master's degree in Finance should take FIN 6426, FIN 6636, FIN 6625, and either FIN 6315, FIN 6325, or FIN 6345 rather than FIN 3414, FIN 4324 or FIN 4345, FIN 4604, FIN 4615.

Certificate in International Business

A Certificate program is available to graduate students wishing to acquire an

in-depth understanding of international business, but who find it unnecessary or inconvenient to enroll for a graduate degree program. Such students may already have the MBA degree, or an undergraduate business degree.

Students in the Certificate in International Business program must meet the general admission requirements for graduate study in the College of Business Administration, and satisfactorily complete an approved program of study consisting of four courses, as follows:

MAN 6608	International Business	
MAN 6635	International Business	
	Policy	3

and two graduate international business courses approved by the Chairperson of the Department of Management and International Business.

Marketing Certificate

Students enrolling in the Marketing Certificate must be admitted to an upper division University program. This certificate is not open to Marketing mains.

The program is comprised of six three-credit hour undergraduate marketing courses, one introductory course at the junior (3000) level, the prerequisite for all the other courses in the program, and five at the senior (4000) level.

Required Courses

MAR 3023	Marketing	
	Management	3
MAR 4153	Retailing	
	Management I	3
MAR 4303	Advertising	
	Management	3

For electives, students take three courses from the following marketing classes and other selected courses:

MAN 3701	Business and Society
MAR 4154	Cases in Retailing
	Management
MAR 4713	Cases in Marketing
	Management
MAR 4243	International Marketing
MAR 4244	Export Marketing
MAR 4503	Consumer Behavior
MAR 4613	Marketing Research
MAR 4344	Advertising Campaign
	Management
MAR 4103	Personal Selling
MAR 4203	Marketing Channels
MAR 4403	Sales Management
MAR 4723	Marketing of Small

On satisfactory completion of the program, signified by a grade of `C' or higher in each course, students will, on application, receive a Certificate in Marketing signed by the Department

Business Enterprises

Chairperson and the Dean of the College.

Non-Credit Certificate Programs

While based in academic theory and models, these programs use hands-on techniques and applications that professional adults find useful.

Certificate and C.E.U.'s may be earned.

Training and Human Resource Development

This two-semester program is the most comprehensive non-credit certificate program in the United States. Recognized by the American Society for Training and Development, the program is showcased in the March 1989 Training and Development Journal. The certificate sets a professional education standard for South Florida trainers.

Personnel Administration

An eleven-week program offered twice a year. Sessions cover_current legal issues affecting the human resource professional and the functions of personnel administration.

Course Descriptions

Definition of Prefixes:

ACG-Accounting; BAN-Banking; BUL-Business Law; CIS-Computer and Information Systems; GEB-General Business; FIN-Finance; MAN-Management; MAR-Marketing; OMB-Quantitative Methods in Business; REE-Real Estate; RMI-Risk Management and Insurance; Tax-Taxation.

Departmental or School/College Designation:

AC - Course taught by School of Accounting

BA - Interdepartmental course taught by College of Business Administration DS - Course taught by Department of Decision Sciences and Information Systems

EC - Course taught by Department of Economics, College of Arts and Sciences

FI - Course taught by Department of Finance.

MA - Course taught by Dopartment of Management and International Business ME - Course taught by Dopartment of Marketing and Environment MS - Course taught by Dopartment of Mathematical Sciences, College of Arts and Sciences

ACG 3021 Accounting for Decisions (AC) (3). Accounting concepts and analyses essential to determining the income and financial position of a business enterprise Prorequisites: ECO

3021, ECO 3011, STA 3132, or equivalent and sophomore standing.

ACG 3301 Accounting for Planning and Control (AC) (3). Use of accounting concepts, analyses, and financial data to aid in the evaluation of the business enterprise; and to aid management in its planning, organizing, and controlling functions. Prerequisites: At least six semester hours of introductory financial and managerial accounting with grades of 'C' or higher, or ACG 3021 with a grade of 'C' or higher, and successful completion of a readiness examination. Must be taken within the first 30 hours of upper division work.

ACG 4101 Financial Accounting I (AC) (3). An exploration of concepts, standards, and principles underlying financial reporting, with emphasis on the measurement, analysis, and interpretation of income and changes in financial position (funds flow). Prerequisites: Calculus I and Logic with grades of 'C' or higher, ACG 3301 with a grade of 'B' or higher, successful completion of a readiness examination, and junior standing.

ACG 4111 Financial Accounting II (AC) (3). A continuation of ACG 4101, with emphasis on the accounting concepts, standards, and principles underlying the measurement and reporting of financial position. Prerequisite: ACG 4101 with grade of 'C' or higher.

ACG 4201 Finencial Accounting III (AC) (3). A continuation of ACG 4111, with emphasis on accounting for partnerships, consolidated financial statements, and financial statement analysis. Prerequisite: ACG 4111 with grade of 'C' or higher.

ACG 4251 International Accounting (AC, MA) (3) Comparative analysis of accounting concepts and practices in different countries; international accounting standards; problems of accounting for multinational corporations, including transfers of funds and income measurement; and the role of accounting in national economic development. Prerequisite: ACG 3301 with a grade of 'C' or higher

ACG 4341 Managerlat Accounting (AC) (3). Determination and control of production costs; job order and process systems, actual and standard costs, budgetary control, cost and profit analyses, and other methods of performance measurement and analysis Prorequisites ACG 4101 with a grade of 'C' or higher

ACG 4401 Accounting Information Systems (AC) (3). Fundamentals of information systems and use of computers in the accounting system of business enterprises. Development of computer technology, techniques of flow charting, and basic design of accounting applications. Student project includes use of computer time-sharing terminal to simulate communications and coordination between accountants and data sharing personnel. Prerequisites: COP 2172 or equivalent, ACG 4341, and ACG 4651.

ACG 4651 Audling (AC) (3). Standards and procedures applied by independent public accountants, ethics and responsibilities of auditors, development of audit programs, accumulation of audit evidence, and reporting. Prerequisite: ACG 4111 with grade of 'C' or higher.

ACG 4901 Independent Study In Accounting (AC) (1-3). Individual conferences, supervised readings, and reports on personal investigations.

ACG 4931 Special Topics in Accounting (Ac) (1-3). For groups of students who wish an intensive study of a particular topic or a limited number of topics not otherwise offered in the curriculum. Prerequisite: Permision of the Director of the School of Accounting

ACG 5137 Standards and Principles of Financial Accounting (AC) (3). A survey of official pronouncements on accounting standards and principles. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5256 International Dimensions of Accounting and Auditing (AC) (3). Review of and reasons for variations in accounting and auditing practices throughout the world, explore initiatives undertaken to promote transparency, harmonization, and standardization to facilitate understanding of financial statements prepared under various conventions. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5307 Advanced Menagerial Accounting (AC) (3) In depth study of determination and control of production costs; budgetary control, CVP analysis, and alternative methods of perfermance measurement and analysis Prerequisite Permission of Accounting certificate program advisor

ACG 5386 Controllership (AC) (3). Study of controllership function; role of controller in planning, accounting for, and evaluating company performance, relationship with internal auditing Pererequisite. Permission of Accounting certificate program advisor

ACG 5395 Seminar in Managerial Accounting (AC) (3). An in-depth study of selected areas of managerial accounting. Prerequisite: ACG 4341 or equivalent and Permission of Accounting certificate program advisor.

ACG 5507 Issues and Problema In Accounting for Non-Profil Entitlea (AC) (3). Study and analysis of accounting, reporting, and control standards and practices of non-prolit organization - including accounting for governments, hospitals, universities, churches, and others. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5625 Systems Auditing (AC) (3). Principles and procedures of auditing systems of information, including the lunction, approach, and techniques of systems auditing and the evaluation of systems controls. Emphasis on auditing computerized systems. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5675 Operational Auditing (AC) (3). Examines operational auditing as a professional discipline for testing and evaluating totality of planning and operating controls; particular attention to development, 'selling' and implementation of recommendations for operating improvement and cost containment. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5695 Seminar in Auditing (AC) (3). An in-depth study of recent developments in auditing. Prerequisite: ACG 4651 or equivalent and permission of Accounting certificate program advisor.

ACG 5805 Seminar in Financial Accounting (AC) (3). An in-depth study of recent developments in Jinancial accounting. Prerequisite: ACG 4111 and permission of Accounting certificate program advisor.

ACG 5846 Statistical Methods In Accounting and Auditing (AC) (3). Formulation, analysis and implementation on a microcomputer of mathematical models in financial and managerial accounting and auditing. Pererequisite: Permission of Accounting certificate advisor.

ACG 5905 Independent Study in Accounting and Auditing (1-3). Individual conferences, supervised readings, and reports on personal investigations. Prerequisites: Written permission of instructor, accounting certificate program advisor, School Director, and Dean.

ACG 5936 Special Topics in Accounting and Auditing (AC) (3). For groups of students who wish an intensive study of a particular topic or a limited number of topics not otherwise offered in the curriculum. Prerequisite: Written permission of instructor, accounting certificate program advisor, School director, and dean.

ACG 6005 Financial Accounting Analysis (AC) (3). Introduction to the theory and practice of financial accounting and reporting, with emphasis on understanding and determining income and financial position. (No credit will be given to students who have had undergraduate or graduate equivalents). Prerequisite: OMB 6603 or equivalent.

ACG 6026 Accounting for Managers (AC) (3). Presentation of the nature, techniques and uses of accounting from the perspective of people who manage businesses and investments in businesses. Covers both financial and management accounting. Not open to M.S.T. or M.Acc. students.

ACG 6135 Seminar in Financial Accounting Theory I (AC) (3). A study of the theoretical structure of accounting, with special attention to asset and income definition, recognition, and measurement; and an appraisal of pronouncements of professional accounting organizations. Prerequisite: ACG 4201 and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6145 Seminar in Financial Accounting Theory II (AC) (3). A continuation of ACG 6135, with emphasis on the problems of accounting lor price-level changes and other current issues. Prerequisite: ACG 6135 and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6175 Financial Reporting and Analysis (AC) (3). Comprehensive treatment of analysis of financial statements as aid for decision making; looks at current state of financial reporting practices and impact of published statements on economic systems. Prerequisite: ACG 6026 or equivalent. Not open to M.S.T. or M.Acc. students

ACG 6255 International Accounting (AC) (3). Comparative analysis of accounting concepts and practices in different countries; international accounting standards; problems of accounting lor multinational corporations, including transfers of funds and income measurements; the role of

accounting in national economic development. Prerequisite: ACG 4201 or equivalent, and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6308 Accounting for Decision Making (AC) (3). The uses and limitations of accounting data as sources of information for managerial decisions. Prerequisite: ACG 6005.

ACG 6346 Seminar in Managerial Accounting I (AC) (3). Analysis of transfer pricing; product pricing; incremental profit analysis; decision models; alternative performance measurement techniques; and other advanced topics. Prerequisite: ACG 4341 or ACG 6308, and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6356 Seminar in Managerial Accounting il (AC) (3). A study of the controllership function in corporate organizations; an appraisal of the controller's role in planning, accounting for, and evaluating company performance; and relationship to internal audit function. Prerequisite: ACG 4341 and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6405 Seminar in Accounting Information Systems I (AC) (3). Application of general systems concepts to accounting; operational, and related planning; and control information requirements. Data base management systems, on-line real-time systems, time-sharing, etc., and applications in accounting. Emphasis on the analysis of computer-based controls, case histories and projects. Prerequisite: ACG 4401 and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6415 Seminar In Accounting Information Systems II (AC) (3). A continuation of ACG 6405, with emphasis on the theories underlying complex information systems. Prerequisite: ACG 6405 and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6505 Governmental and General Cost Accounting Functions (AC) (3). Describes accounting treatment for general and other accounting funds and associated account groups; illustrates governmental financial reporting; treats cost accounting in governments including theory, systems, standards and procedures. Prerequisites: ACG 3301 or

equivalent; and admission to graduate program in the School of Accounting or permission of School Director.

ACG 6506 Governmental and Institutional Accounting (AC) (3). Budgeting, accounting, and reporting standards and practices for government and other not-for-profit entities. Prerequisite: ACG 4111 and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6515 Advanced Governmental Accounting (AC) (3). Treats the developing concept of consolidated financial statements for governments. Also covers advanced areas of accounting, e.g., concepts, investment accounting, grant accounting, and pension accounting. Prerequisites: ACG 6505, ACG 6584, admission to graduate program in School of Accounting or permission of School Director.

ACG 6516 The Environment of Government Accounting (AC) (3). Basic public administration emphasizing governmental processes with which governmental accountants and auditors come into contact. Includes legislative and administrative activities and operating functions having high accounting and auditing involvement. Prerequisite: Admission to graduate program in School of Accounting or permission of School Director

ACG 6517 Audit of Governmental Entitles (AC) (3). Covers methods of audits of governments by independent public accountants, coordination with internal audit staffs; describes audits of governments by internal auditors (audits of fidelity, efficiency and effectiveness); covers current single audit concept. Prerequisites: ACG 6505, admission to the graduate program in the School of Accounting, or permission of School Director.

ACG 6518 Historical and Comparative Government Accounting (AC) (3). Research and reporting on subjects in the history of, or on comparative aspects of, government accounting Prerequisite: Admission to the graduate program in the School of Accounting or permission of School Director

ACG 6519 Contemporary Issues in Government Accounting (AC) (3). Research and reporting on current issues related to government accounting Prerequisite. Admission to graduate program in School of Accounting or permission of School Director

ACG 6545 Analysis of Governmental Financial Reports (AC) (3), Describes

content of government financial reports and analytical methods employed by internal and external users; covers concepts of disclosure, budget/actual analysis, credit evaluations, operational evaluations, measures of fiscal capacity and signs of fiscal stress Prerequisites: ACG 6515 and admission to graduate program in the School of Accounting or permission of School Director.

ACG 6546 Governmental Planning and Budgetary Accounting with Cases (AC) (3). Budgeting in governments emphasizing formulation based on accounting and auditing input. Budget execution and analysis of deviations of actual from budgets; study of ZBB, PPBS, and MBO systems and their behavioral and accounting bases. Prerequisites: ACG 6505, ACG 6525 and admission to the graduate program in the School of Accounting or permission of the School Director.

ACG 6596 Accounting for Specialized Governmental and Nonprofit Entitles (AC) (3). Survey course by guest lecturers covering detailed accounting concepts, procedures, and reporting for enterprise fund entities, educational service funds. Prerequisites: ACG 6505, and admission to the graduate program of the School of Accounting or permission of the School Director.

ACG 6625 EDP Auditing Concepts (AC) (3). To convey an understanding of computer auditing concepts and practices intended to express opinion on financial statements, evaluate effectiveness of controls, and prepare meaningful management letter. Prerequisites: ACG 4651, ACG 4401, and admission to graduate program in School of Accounting or permission of School Director.

ACG 6675 Studies in Auditing II (AC) (3). This course examines auditing in depth as a professionalized discipline for reviewing testing, and evaluating the financial and the operational activities and controls of an economic entity Focus will be directed to private sector profit seeking ontities as well as governmental and other nonprofit organizations. Prorequisite Admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6696 Studies in Auditing I (AC) (3). Professional and technical aspects of auditing practice, ethics and legal responsibilities, review of field work emphasizing materiality, sampling, and working papers, reporting problems

including long-form and special purpose reports; study of recent auditing developments. Prerequisite: ACG 4651 and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6835 Behevioral Accounting (AC) (3). Study of the effect of the process and products of accounting and of the relation of changes in the process and products to individual and group behavior; consideration of ways in which accounting can aid individuals and organizations to attain their goals. Prerequisites: ACG 4111 and 4341 or equivalents, and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6845 Accounting and Quantitative Methods (AC) (3). Study of statistical and management science techniques that are or may be utilized in financial and managerial accounting. Prerequisites: MAN 3503, OMB 3150 and ACG 4401, or equivalents, and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6875 Evolution of Accounting Thought (AC) (3) The cultural origins of accounting and its traditional controversies, from pre-historic time onward, and in an international context. Prerequisites: Admission to graduate program in School of Accounting or permission of School Director

ACG 6885 Accounting Research and Reporting (AC) (3) Examine the projects relating to historical and current problems in public accounting practice, and preparation of appropriate reports in oral and written formats, under a variety of professional settings. Prerequisite Admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6905 Independent Study in Accounting (AC) (1-3). Individual conferences, supervised readings, reports on personal investigations. Prorequisite Admission to a graduate program in the School of Accounting or permission of the School Director

ACG 6935 Special Topics in Accounting (AC) (1-3) Intensive study for groups of students of a particular topic or a limited number of topics not otherwise offered in the curriculum Preroquisite Admission to a graduate program in the School of Accounting or permission of the School Director

ACG 7157 SemInar: Theory and Contemporary Research in Financial Accounting (AC) (3). An evaluative overview of the classical literature in financial accounting and the contemporary empirical research published in the leading scholarly journals. Examined are income determination theories, normative accounting principles, accounting information and stock prices, and principal-agent relationships. Pererequisite: Permission of Doctoral advisor in Accounting.

ACG 7177 SemIner: Accounting Information and Security Prices (AC) (3). An in-depth examination of accounting information and security prices within capital markets theory, including a thorough examination of the cross-sectional properties and timeseries properties of accounting numbers and the importance of research findings and new developments in research methodology. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7436 Seminer: Information Value and Agency Research Accounting (AC) (3). An in-depth examination of the research paradigm and the associated empirical research in accounting and auditing. Examined are the issues of information value, risk aversion, risk sharing contracts, as well as accountability from the standpoint of monitoring contracts. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7695 SemInar: Contemporary Research in Management Accounting and Auditing (AC) (3). A broad overview of classical and contemporary empirical research in managerial accounting and auditing including budget and performance review, decision making, information analysis, professional judgement, sampling problems, audit risk, etc. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7836 SemInar: Behavloral
Research in Accounting-Individual
Behavlor (AC) (3). An in-depth
examination of the relationship of
cognitive psychology, cognitive models
of human judgement, decision theory
and accounting information. Emphasis is
placed upon the human processing of
accounting information, the decision
value of information, and the
development of decision aids or
heuristics. Prerequisite: Permission of
Doctoral advisor in Accounting.

ACG 7837 SemInar: Behavioral Research in Accounting-Human Groups and Systems (AC) (3). The multifarious behavioral relationships of groups within the formal and informal organizational structure are examined with respect to performance measurement (efficiency and effectiveness), accountability, planning and control of the development of decision support systems. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7886 Seminar: Empirical Research Methodology and Paradigms in Accounting (AC) (3). Study of research design, methods of data collection and analysis and problems of measurement in accounting research. Empirical research studies in accounting are integrated throughout to illustrate and analyze the structural problems of research design as well as the strengths and weaknesses of various acceptable paradigms. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7887 Research Forum and Workshop (AC) (1). Regularly scheduled workshop at which visiting scholars as well as faculty and doctoral candidates present and evaluate research papers. Candidates are expected to participate in discussions, act as discussants and present their own research for critique. Sessions are held for structuring and "brainstorming" research projects in the formative stages as well as for presenting completed efforts. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7888 SemIner: The Philosophy of Science, Theory Construction, and Verification in Accounting (AC) (3). An examination of knowledge, theories, scientific explanation and prediction as related to the social sciences. Various theories of accounting are critically examined from the standpoint of theory construction and verification in the philosophy of science. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7889 Seminar: Positive Theory Research in Accounting (AC) (3). Construction of theory to explain accounting and auditing practices in an environment of regulation using empirical research findings from a growing body of economic-based research in accounting and finance. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7937 Seminar: Special Topics In Accounting Research (AC) (3). Topics vary according to instructor and student interest in problems and issues on the frontier issues of accounting. Prerequisite: Permission of Doctoral advisor in Accounting.

BAN 5652 Savings and Loan Management (FI) (3). Financial management of savings and loan associations and other mortgage lenders, supply and demand of mortgage funds; state and federal regulatory bodies' legal and institutional characteristics related to mortgage markets. Prerequisite: FIN 3403 or FIN 6428, or equivalent.

BUL 3100 The Legal Environment of Business (AC) (3). A background of the legal environment including Contracts, Torts, Ethics and the Law, Uniform Commercial code, Antitrust Law, Employment Law, Administrative Law, and Securities Law.

BUL 4111 Business Law I (AC) (3). Principles of law affecting the legal environment of business; contract law; laws related to sales, torts, agencies and employment; legal relations of government and business.

BUL 4112 Business Law II (AC) (3). Bailments, shipment and sale of goods; suretyship; bankruptcy; commercial paper; real and personal property; insurance; relevant provisions of the uniform commercial code.

BUL 4650 Special Topics in Business Law (AC) (1-6). Intensive study for groups of students of a particular topic, or a limited number of topics, not otherwise offered in the curriculum. Prerequisite: Permission of the Director of the School of Accounting.

BUL 4905 Independent Study in Business Law (AC) (1-6). Individual conferences; supervised readings; reports on personal investigations. Prerequisite: Permission of the Director of the School of Accounting

BUL 5105 Legal Environment of Business (AC) (3). Studies the importance of law and legal institutions on commerce workings of administrative law; various aspects of employment legislation and other areas of legal environment of business. Prerequisite: Permission of accounting certificate program advisor.

BUL 5661 Law for Accountants (3). A survey of select topics of direct interest to accounting students, including contracts, sales, agencies, partnerships, corporations. Prerequisite: Permission of Accounting certificate program advisor. BUL 5662 Accountant's Liability (3). Overview of accountant exposure to private and public sector liability suits, independent in auditor engagements, securities regulations and other state and federal laws of chief concern to accountants. Prerequisite: Permission of Accounting certificate program advisor.

BUL 6124 Survey of Business Law (AC) (3). Graduate level survey of business law which examines the social purposes, functions and forms of the law and the courts, particularly as they relate to business organizations. Prerequisite: Admission to a graduate program in the School of Accounting, or permission of the School Director.

BUL 6631 International Commercial Law (AC) (3). Analysis of legal problems facing th U.S. international and multinational businesses. Topics include the transnational research of economic regulation, international trade and investment, antitrust law, technology transfers, and securities law. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

BUL 6651 Special Topics in Business Law (AC) (1-6). Intensive study for groups of students of a particular topic, or a limited number of topics, not otherwise offered in the curriculum. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director

BUL 6906 Independent Study In Business Law (AC) (1-6), Individual conferences; supervised readings; reports on personal investigations. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

CGS 3300 Introduction to Information Systems (DS) (3), Survey major information systems (I.S.) problems in organizations. Brief study of basic computer concepts; I.S. development cycle; relation of I.S. and decision-making; microcomputer database, spreadsheet and wordprocessing business applications. Student microcomputer projects

COP 7540 File and Database
Management Systems (DS) (3).
Fundamentals of database concepts and
methodologies, including data
representation, data modeling, and file
organization. Prerequisite: Graduate
standing.

ECO 3011 Economics, Man and Society Macro (EC) (3) Relationship of economics to aggregate income. Identification of economic and non-economic objectives and problems. Analysis of economic behavior of individuals, business firms, public agencies, and interest groups. Public issue interpretation in the light of economic theory.

ECO 3021 Economics, Man and Society Micro (EC) (3). Relationship of economics to individual action. Identification of economic and non-economic objectives and problems. Analysis of economic behavior of individuals, business firms, public agencies, and interest groups.

ECO 3431 Applled Macroeconomics (EC) (3). Aggregate economic performance and business conditions analysis. Analysis of the nature and causes of business fluctuation. Economic expansions and stagiflation: public policies for economic stability; fiscal policy, monetary policy and incomes policy. Sectoral analysis and macroeconomic forecasting. Prerequisites: ECO 3021 and ECO 3011 or equivalent.

ECP 6705 Managerial Economics I (EC) (3). Basic microeconomic concepts as they apply to decision making within the organization; supply and demand; market structure and market behavior in specific industries. Prerequisites: ECO 3021 and ECO 3011.

ECP 6715 Macroeconomic Forecasting for Management (EC) (3). Business macroeconomic concepts as they apply to decision making within the firm. Traditional models of income determination and forecasting analysis. Prerequisite: ECP 6705.

FIN 3403 Financial Management (FI) (3). A study of tinancial docision making in the corporate form of enterprise. An analysis of the sources and uses of funds. Emphasis is placed on working capital management; capital budgeting techniques; short and long term financing; and capital structure and the value of the firm. Prerequisite: ACG 3021 and STA 3132 or equivalent.

FIN 3414 Intermediate Finance (FI) (3). Special topics and case problems in linancial management. Prerequisite: FIN 3403 or equivalent.

FIN 3949 Cooperative Education in Finance (FI) (3). Semesters of full-time classroom study are alternated with semesters of full-time remunerated employment which closely relates to the student's area of eachemic study Carefully designed and monitored work assignments are intended to develop the student's understanding of the relationship between theory and practice in an authentic work environment.

Prerequisite: Approval of Chairperson.

FIN 4100 Estate Analysis and Planning (FI) (3). F personal financial management approach to estate creation, maintenance, and transfer. Uses financial analysis techniques and portfolio approaches to evaluate alternate strategies. Prerequisite: FIN 3403 or equivalent.

FIN 4204 Financial History of the United States (FI) (3). Origins of the American financial system. Early American history of financial intermediaries. Evolution in financial legislation, policy, practice, and role of financial intermediaries. Role of the Federal Reserve System in financial markets and influence on financial policy. Prerequisite: FIN 3403 or equivalent.

FIN 4303 Financial Markets and Institutions (FI) (3). Financial markets and the role of financial intermediaries in these markets. Emphasis will be upon the objectives and policies of financial intermediaries within the constraints of law and regulatory authorities.

Prerequisite: FIN 3403 or equivalent.

FIN 4324 Commercial Bank Management (FI) (3). The management of bank assets and liabilities; specialized banking functions; and the role of the commercial bank in financing business. Prerequisite: FIN 3403 or equivalent.

FIN 4345 Credit Analysis and Loan Evaluation (FI) (3). Topics to include: introduction to commercial lending; secured lending; accounts receivable financing and factoring; inventory financing, introduction to lending vehicles; short term lending; domestic taxation, consolidations; forecasting and intermediate term cash flow lending; term loan agreements/ covenants; subordinations and guarantees; foreign exchange; international transactions and leasing Prerequisite: FIN 3403.

FIN 4404 Policies for Financial Management (FI) (3). The process of securing and allocating funds within the organization, with emphasis on the relevant financial decision-making and policy aspocts Prerequisite FIN 3403 or equivalent

FIN 4435 Capital Budgeting Techniques and Applications (FI) (3). The application of contemporary theory and techniques to the problem of long term resource allocation. A review of capital budgeting techniques and the implications the investment and management of capital have toward the goal of maximizing the value of the firm. Prerequisite: FIN 3414 or equivalent.

FIN 4461 Financial Statement Analysis (FI) (3). This course explores methods of deriving information from financial statements, including both published documents and privately prepared reports, that would be of interest to lenders and investors. Extensive use is made of computer assisted financial planning forecasting models.

Prerequisite: FIN 3403.

FIN 4502 Securities Analysis (FI) (3). The examination of the determinants of the values of common and preferred stocks, bonds, and warrants. The timing of security purchases and sales and an introduction to portfolio construction techniques. Prerequisite: FIN 3414 and OMB 3150.

FIN 4503 Futures Markets (FI) (3). This course covers the institutional, speculative, and hedging concepts associated with lutures markets. Individual and institutional uses of these markets are examined, with the emphasis on the risk-return aspects of the futures and cash markets. Prerequisites: FIN 3414 or FIN 4502 or FIN 4303.

FIN 4504 Portfollo Analysis and Management (FI) (3). Financial theories will be applied to the construction of portfolios. Portfolio management techniques will be analyzed in regard to the goals of individuals, corporations, and various financial institutions. Prerequisite: Fin 4502 or equivalent.

FIN 4604 International Financial Management (FI,MA) (3). Capital budgeting operational analysis and financial decisions in the multinational context. Working capital management and intrafirm fund transfers. Measurement and evaluation of the risk of internationally diversified assets. Prerequisite: FIN 3403 or equivalent.

FIN 4614 Internationat Capital Markets (FI,MA) (3). The world's major non-U.S. stock exchanges; international diversification and the international capital asset pricing model; foreign exchange markets and Euro-currency markets. Prerequisite: One of the following courses: FIN 4303, FIN 4502, FIN 4503, or FIN 4604.

FIN 4613 International Trade Financing Techniques (Fi, MA) (3). Alternative methods of financing exports and associated risks. Flexibility and adaptability of letters of credit to special transactions. Types of financial arrangements available to importers and bank considerations in the extension of credit. Role and importance of governmental and quasi-governmental organizations such as the Export-Import Bank, Foreign Credit Insurance Association (FCIA), Overseas Private Investment Corporation (OPIC), and Private Export Funding Corporation (PEFCO). Prerequisite: FIN 3403.

FIN 4621 RIsk Analysis in International Lending (FI, MA) (3). Analyzing foreign loan requests and evaluating risk. Measuring and managing country exposure. Role of regulatory authorities in promoting diversification of international credits. Maximizing long-run profitability to the international loan portfolio taking funding options into consideration. Prerequisite: One of the following - FIN 4303, FIN 4502, FIN 4503, or FIN 4604.

FIN 4615 International Banking (FI) (3). Introductory survey of issues that deal with international aspects of banking. The course provides an overview of the structure and operation of the international banking function, the services offered, supporting documentation, and measures to improve the efficiency and effectiveness of the international banking organization. The purpose of the course is to acquaint the students with the daily activities in international banking. Prerequisite: FIN 4324 or permission of instructor.

FIN 4713 Financial Policies for Not-For-Profit Organizations (FI) (3). Financial processes relevant to governmental and other not-for-profit organizations. Emphasis is on legal, political, and market constraints on securing, managing, and expending funds. Prerequisite: FIN 3403 or equivalent.

FIN 4904 Independent Study In Finance (FI) (1-6), Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

FIN 4934 Special Topica in Finance (FI) (1-3). For groups of students who desire an intensive study of a particular topic or a limited number of topics not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

FIN 4941 Finance Internship (FI) (1-3). Full-time supervised work in a selected bank or other organization in the area of finance. Prerequisites: At least twelve hours of finance, consent of instructor, and department chairperson.

FIN 4949 Cooperative Education In Finance (FI) (3). Semesters of full-time classroom study are alternated with semesters of full-time remunerated employment which closely relates to the student's area of academic study. Carefully designed and monitored work assignments are intended to develop the student's understanding of the relationship between theory and practice in an authentic work environment. Pererequisite: Approval of Chairperson.

FIN 5418 Working Capital
Management (FI) (3). Intermediate
theories and techniques of cash,
accounts receivable, inventory, and
accounts payable management.
Prerequisite: FIN 3403, or equivalent.

FIN 5473 Small Business Finance (FI) (3). The financial markets, financial instruments, and managerial policies and techniques available to potential and existing entrepreneurs and owner/managers. Emphasis will be upon analysis of areas of opportunity for small business: analysis of financing alternatives; and analysis of profitability. Prerequisite: FIN 3403 or FIN 6428, or equivalent.

FIN 5495 Leasing and Mergers (FI) (3). Discussion-oriented course; will provide an analytical foundation to corporate development, strategies, and resource allocation decisions. Merger activity and leasing decisions will be viewed as strategic decisions by the firm to enable them to achieve corporate objectives. Prerequisite: FIN 3403 or FIN 6428, or equivalent.

FIN 5515 Options Markets (FI) (3). An examination of the risk-return structure of options on stocks, indexes, debt, and futures. An examination of the structure of these markets and strategies for their use in portfolios. Corequisite: FIN 4502 or FIN 6428.

FIN 6246 Financial Markets and Institutions (FI) (3). Analysis of the characteristics and efficiency of the money markets and capital markets. Types of money market and capital market instruments, and the role of financial institutions in these markets.

FIN 6315 Commercial Banking (FI) (3). The objectives, constraints, and policies applicable to the management of commercial banks. Emphasis will be given to asset and liability management, marketing of services and other banking functions.

FIN 6316 Management of Non-Bank Financiel Institutions (FI) (3). The objectives, constraints, and policies applicable to the management of non-bank financial institutions, savings and loans associations, credit unions, REITs, and insurance, investment and finance companies.

FIN 6325 Current Issues in Commercial Banking (FI) (3). Main policy issues in commercial banking and the role of regulatory authorities. Presentation includes bank mergers and holding companies; national bank branching; and the present structure and prospects of the financial sector. Prerequisite: FIN 6315 or equivalent.

FIN 6346 Credit Analysis (FI) (3). This course examines how the accounting framework is integrated with tools and techniques for the analysis and interpretation of financial statements. Evaluation of fisk in demestic and foreign loans and the pricing of credit facilities, Prerequisite: FIN 6428.

FIN 6426 Financial Management Policias (FI) (3). The selection and management of current and permanent assets to achieve corporate objectives. The selection and management of alternative sources of funds to obtain the optimal capital structure. Prerequisite: FIN 6428 or equivalent.

FIN 6428 Finencial Management (FI)
(3). In-depth examination of asset, liability and capital structure management, with emphasis on capital budgeting techniques; risk evaluation; working capital management, and methods of short-term, intermediate and long-term financing. Prerequisite: ACG 6005 or equivalent.

FIN 6436 Capital Budgeting and Long Term Resource Allocation (Fi) (3). The theory of capital allocation at the level of the lirm, and empirical findings Decision models and their application. The pattern of capital expenditure of industries and of the economy as a whole. Investment determinants, Prerequisite. FIN 6428 or equivalent.

FIN 6455 Financial Modeling and Forecasting (FI) (3). An introduction to Financial Modeling and Forecasting Emphasis is on computer models and lorecasting the financial variables Prerequisite: Permission of instructor

FIN 6456 Quentitative Methods in Financial Anelysis (FI) (3). The applications of computer techniques to financial management of manufacturing firms and financial institutions. Prerequisite: FIN 6428 or equivalent.

FIN 6508 Financial Futurea and Fixed Income Investments (FI) (3). An examination of the structure, uses, and strategies associated with financial futures markets. Hedging, speculative activity, and other risk-return procedures are discussed. Prerequisite: FIN 6428 or equivalent.

FIN 6516 Securitiee Analysis (FI) (3). An analysis of contemporary securities markets and their operations. The determinants of the risk-reward structure of equity and debt securities. Prerequisite: FIN 6428 or equivalent.

FIN 6525 Portfollo Management (FI) (3). Financial theories will be applied to the construction of portfolios. Portfolio management techniques will be analyzed in regard to the goals of individuals, corporations, and various financial institutions. Prerequisite: FIN 6516 or equivalent.

FIN 6625 International Bank Management (FI, MA) (3). Management of the international banking function; setting goals and developing strategies, establishing an organizational structure and managing operations. International banking services. Foreign lending, risks, restraints, and portfolio considerations. International banking trends and implications for regulation.

FIN 6626 International Bank Lending Policies and Practices (FI, MA) (3). Organization of the lending function and examination of the basic types of international lending: trade financing, loans or placements to foreign banks, loans to governments and official institutions, and loans to businesses. Syndicated bank loans Documentation and legal considerations in foreign lending. Assessing and managing risk in the international loan portfolio.

FIN 6636 International Finance (FI, MA) (3). A comparative study of the institutional characteristics and internal efficiency of developed and underdeveloped capital markets. The relationships between world and capital markets and prospects for integration. The role of multilateral institutions, multinational corporations, states, and the structure of trade in the international short and long torm capital flows. The dovelopment of financial centers. Proroquisites: FIN 6428 or equivalent.

FIN 6716 Finencial Management of Governmental Organizations (FI) (3). The budgetary process of identifying, justifying, and allocating funds. The securing of funds in the market and the officient allocation of funds. FIN 6804 The Theory of Finance (FI) (3). The study of the development of the theory of finance and its implications for the financial decisions made by the manager of business firms. Topics include: utility theory; capital budgeting; portfolio theory; capital market equilibrium; multi-period valuation; and the cost of capital. Financial decision making is explored under both certainty and uncertainty and within the context of both perfect and imperfect markets. Prerequisite: FIN 6428 or equivalent.

FIN 6906 Independent Study In Finance (FI) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of laculty tutor and Department Chairperson required.

FIN 6915 Master's Project In Finance (FI) (1-6). An individualized research project and report, which may include field experience with a firm or agency; library research; computer programming; or project development. The course should be taken during the last half of the student's graduate program. Consent of faculty tutor and Department Chairperson required.

FIN 6936 Special Topics in Finance (FI) (1-3). For groups of students who desire intensive study of a particular tepic or a limited number of topics not otherwise offered in the curriculum. Consent of laculty supervisor and Department Chairperson required.

FIN 7507 Seminar In Futures Markets (FI) (3). A comprehensive examination of the literature in futures markets. Emphasizes the structure and pricing of futures, and risk-management via hedging and arbitrage. Prerequisite: Permission of instructor

FIN 7528 Seminar in investments (FI) (3). Examinos analysis and measurement problems of investments. Includes the application of statistical techniques, current theoretical issues and empirical literature Prerequisite: Permission of instructor

FIN 7606 International Corporate Finance (FI) (3). The study of topics of research interest to international Imancial decisions. Topics include loreign exchange risk, international Imancial markets, and loreign exchange market efficiency. Prerequisite Permission of instructor

FIN 7807 Seminar in Corporate Finance (FI) (3). Familiarizes students with recent developments in finance theory. Includes such topics as the

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influence of leverage, uncertainty and the cost of capital, agency theory and related topics. Prerequisite: Permission of instructor.

Fin 7808 Financial Theory I (FI) (3). This course focuses on the theory of financial decision-making under certainty and risk. Includes investment under uncertainty, capital structure, dividend, asset valuation, and options pricing. Prerequisite: Permission of instructor.

FIN 7809 Financial Theory II (FI) (3). This course locuses on the theory of financial decision-making under certainty and risk. Includes investment under uncertainty, capital structure, dividend, asset valuation, and options pricing. Prerequisite: Permission of instructor.

FIN 7810 Financial Theory III (FI) (3). This sequel to Financial Theory I and II locuses in on microfinance. Discusses issues primarily in corporate finance such as effects of taxation, agency theory, and signalling theory. Prerequisite: Permission of instructor.

FIN 7811 Seminar In Financial Markets and Institutions (FI) (3). Examines recent developments in economic and financial theories as applied to topics such as the structure of financial markets and the economics of information and financial institutions. Prerequisite: Permission of instructor.

FIN 7812 Seminar in Options and Contingent Claims (Fi) (3). An examination of the theories of option valuation and arbitrage pricing, and their applications to security analysis, portlolio management and financial instrument valuation. Prerequisite: Permission of instructor.

FIN 7816 Seminar In Portfolio Theory (FI) (3), Examines investment and portfolio theory, with emphasis on the historical development of the literature in this area and the recent analytical and empirical work. Perequisite: Permission of instructor.

FIN 7818 Foundations of Financial Models (FI) (3). Introduction to mathematical and economic models underlying the development of modern finance theory. Includes discrete and continuous time models in finance using stochastic calculus. Prerequisite: Permission of instructor.

FiN 7845 Staltatical Methods in Finance I (FI) (3). Estimation, and testing of various economic and financial models. Emphasis on econometric techniques to deal with various problems of single-equation models and introduction to simultaneous equation. Prerequisite: Instructor's permission.

FIN 7846 Statistical Methods in Finance II (FI) (3). Emphasis on econometric techniques and multivariate statistics as applied in finance. Includes simultaneous equation models, multiple discriminant analysis and factor analysis. Prerequisite: Instructor's permission.

FIN 7855 Financial Economics I (FI) (3). An advance doctoral course covering selected advanced topics in Microeconomic foundations and other topics related to business. Emphasis will be on economics of uncertainty, agency problems, information and signalling. Prerequisite: ECO 7115 or Permission of instructor.

FIN 7856 Financial Economics II (FI) (3). An advanced doctoral course covering selected advanced topics in the theory of macrofinance. Emphasis will be on financial intermediation.

Prerequisite: ECO 7206 or Permission of instructor.

GEB 3112 Foundations of Enterprise (MA) (3). An introduction to the general theories, principles, concepts and practices of entrepreneurship. Heavy emphasis is placed on lecture, readings, case studies and group projects.

GEB 6405 The Legal Environment of Business (BA) (3). A study of the economic and legal environments of organizations with attention to their ethical, political, and social contexts.

GEB 6716 Competitive Strategy (FI) (3). Provision of tools for managerial decision-making in a variety of competitive environments including demand analysis, short- and long-run costs of production, demand for factors, market structure and competitive strategy.

GEB 7916 Doctoral Research Project In Businesa (BA) (15). Intensive research project conducted after the first tier of coursework is complete. Conducted on an individual basis under the supervision of a laculty member. Prerequisite: Graduate standing.

GEB 7936 Doctoral Seminar in Business Administration (BA) (1). Weekly informal seminars to discuss current issues, educational approaches, and career management for Ph.D. students in Business Administration.

GEB 7980 Doctoral Dissertation in Business Administration (BA) (3-15). Original research that is supervised by a faculty committee and defended openly before the university committee. Prerequisite: Admission to Candidacy.

ISM 3949 Cooperative Education in Management Information Systems I (DS) (1-3). A program enabling MIS majors to work in jobs significantly related to their major area and career goals. Placement must be approved by Department Chairperson.

ISM 4113 Systems Analysis and Design (DS) (3). Topics include: information systems concepts; the structure, design, and development of the data base; and techniques and procedures used in the analysis and design of systems projects. Prerequisite: CGS 3403, and or COP 3120.

ISM 4151 Systems Management (DS) (3). An in-depth, case-oriented, study of the problems encountered in the management of systems projects. Analyst-user conflicts, communication problems within the systems department, computer evaluation and selection techniques, computer negotiations and contracts, and project management are covered in detail. Where appropriate, field study investigating a topical area will be carried out by each student. Prerequisite: ISM 4210.

ISM 4210 Data Base Applications (DS) (3). Application of the data base technology and concepts to organization problems. Includes DBMS components; hierarchic, network and relational approaches to DBMS design. Hands on experience with a DBMS. Prerequisite: ISM 4113. Cannot be taken for credit by students who have had COP 5540.

ISM 4340 Organizational Impacts of Information Systems (DS) (3). Investigation of the human and organizational factors relevant to design and implementation of information systems in complex organizations. Prerequisites: MAN 3025 and CGS 3300.

ISM 4949 Cooperative Education in Management Information Systems II (DS) (1-3). A continuation of ISM 3949. A program enabling MIS majors to work in jobs significantly related to their major area and career goals. Placement must be approved by Department Chairperson. Prerequisite: ISM 3949.

ISM 6045 Current Economic and Social Implications of Information Systems (DS) (3). Effects and implications of socio-economic factors in the operation of information systems and interdependence with the legal and international business environment. Privacy and fraud; computer system purchase and lease contracts; economics of system design, selection and operation; electronic fund transfers and mail; international considerations. Prerequisites: MAN 6830 and MAN 6051.

ISM 6106 Systems Analysis (DS) (3). A study of the systems approach to problem solving as it applies to any area of specialization. Consideration of the problems in determining system objectives; identifying system boundaries and constraints; marshalling resources for achieving system objectives; analyzing the sub-components of the system and their respective objectives; and managing the system. Prerequisites: MAN 6830, CGS 3300, and COP 3210.

ISM 6155 Information Systems Analysis and Dealgn (DS) (3). Concepts and methods used in the analysis and design of MIS. Feasibility study, system flow charting, data requirements analysis, data design, user friendly systems design. Systems design project. Prerequisites: ISM 6205 and ISM 6105.

ISM 6205 Data Structures and File Processing in Business (DS) (3). This course deals with major levels of data organization, data base management, hierarchic and associative structures, file maintenance, and privacy and security measures and safeguards. Prerequisites: MAN 6830, CGS 3300, and COP 3210.

ISM 6305 Information Systems Planning (DS) (3). An in-depth study of systems concepts, as they apply to information systems in organizations. Consideration of planning for systems development and its accomplishment through the phases of the life cycle, and of the overall management of the information systems function.

Prerequisites: MAN 6830 and MAN 6051.

ISM 6357 Computer Administration (DS) (3). The theory and computer management. Topics include selection, training, job and performance evaluation, and incentive schemes as they relate to key positions of systems analysis, programming, data preparation and entry, and project management. Special attention is given to human resources management and development at various levels within the EDP department.

ISM 6405 Decision Support Systems (DS) (3). Concept of decision support is examined and types of applied decision support systems in business are surveyed Prerequisites MAN 6830, MAN 6569, ISM 6205, and ISM 6106

ISM 6455 Microcomputer Applications in Business (DS) (3). Fundamentals and comparison of contemporary microcomputers. Extensive usage of available software for making business decisions. Emphasis on small business applications and cases. Student projects. Prerequisites: Computer programming proficiency, MAN 4504 and CGS 3300 or MAN 6501 and 6830.

ISM 6930 Special Topics In Management Information Systems (DS) (1-6). To study the recent developments in the MIS field not otherwise offered in the curriculum, such as office automation, computer graphics, etc. Prerequisites: Advanced standing and department chairman approval.

ISM 7126 Systems Analysis and Design (DS) (3). The process of analyzing information requirements and the design and implementation of software systems. Emphasis on the theoretical foundations of different systems development techniques.

ISM 7083 Deterministic Decision Models (DS) (3). This course deals with the optimal decision making and modeling of deterministic systems that originate from real life. These applications, which occur in government, business, engineering, economics, and the natural and social sciences, are largely characterized by the need to allocate limited resources.

ISM 7087 Probabilistic Decision Models (DS) (3). This course deals with the optimal decision making and modeling of probalistic systems that originate from real lile. These applications, which occur in government, business, engineering, economics, and the natural and social sciences, are largely characterized by the need to allocate limited resources.

ISM 7152 Seminar on System Implementation (DS) (3). Theory and research on the implementation of information systems in organizational settings. Theories of technological innovation and political action applied in the design and development of systems within organizations

ISM 7306 Seminar on Managing Information Resources (DS) (3). Theory and research on the managerial viewpoint on information processing functions within an organization Relationship of information management to strategic planning and other business functions.

ISM 7345 Organizational Impacts of Information Systems (DS) (3). Analysis of theory and research on the impacts of information systems on human behavior in organizations and upon organizational design.

ISM 7406 DecIsion Support Systems (DS) (3). Theory and research on the design of decision aids. Integrating models and data with a technological delivery system that supports unstructured problem-solving by executive.

MAN 3025 Organization and Management (MA) (3). An analysis of organizations and the management processes of planning, organizing, directing, and controlling in the context of socio-technical systems. Individual group, intergroup, and organizational responses to various environments and technologies are studied, as are pertinent techniques of manpower management.

MAN 3503 Managerial Decision Making (DS) (3). This course concentrates on practical decision problems for the manager in an organization. Topics include decision-making theory, linear programming and extensions, Markov Chains, queuing, simulation, and decision support systems. Use of computer packages. Prerequisites: College Algebra, STA 3132 or the equivalent, and OMB 3150.

MAN 3602 International Business (MA) (3). Introductory analysis of the business system and management decision-making in the international operation of enterprise. Special emphasis given to international trade and investment, foreign exchange; financial markets; political and cultural interactions between host societies and multinational enterprise. Prerequisite: ECO 3432.

MAN 3701 Business and Society (ME) (3). An examination of place and role of business in contemporary society. The interaction between business and its economic, legal, political, social, and international environments is discussed and analyzed in detail. Among topics which may be covered are the development and current structure of social systems, as itemized above, which set forth the parameters in which business operates. That is, government legislation and regulation, constitutional law, political and cultural limitations, and other topics.

MAN 3949 Cooperative Education Management I (MA) (1-3). A special program enabling management majors to work in jobs significantly related to their major area and career goals. Specific placement must be approved by the Department Chairperson and faculty advisor prior to enrollment. Prerequisite: qualification for Cooperative Education Program.

MAN 4064 Dilemmas of Responsibility in Busineas Management (MA) (3). The use of interdisciplinary concepts and tools to define and understand the moral and ethical dilemmas involved in business and corporate spheres of activity. Specifically attended to are issues such as pollution, consumer affairs, and quality of public lacilities.

MAN 4065 Ethloal Systems
Management (ME) (3). The application of ethical theory to business management. A review of ethical systems, and examples, theoretical and practical of institutionalizing ethics in organizations. Case analyses used, and written projects required. Prerequisites: MAN 3701 or permission of instructor.

MAN 4102 Women in Management of Business Organizations (MA) (3). This course is intended for students interested in the present and future status of female managers. It will focus on the history of women in professions; the socio-economic status of women in business; educational factors, sex roles and the informal organization; relevant legal requirements; the development of managerial climates for effective performance; and strategies for changing organizations.

MAN 4120 Intergroup Relations in Organization (MA) (3). A study of the psychological and sociological dimensions of intergroup relations. Attention to the problems experienced by subgroups in large and small organizations, with particular reference to ethnic, racial, and sub-cultural groups. The roles and responsibilities of management in the constructive resolution and utilization of inter-group conflict in organizations.

MAN 4142 Managerial Decision Styles (MA) (3). An experiential, theoretical, and applied investigation of personal decision styles and their relation to management and human effectiveness. Focus upon analytic and intuitive styles of thinking.

MAN 4151 Behavloral Sclence In Management (MA) (3). An analysis of selected concepts in behavioral science, their interaction and application to management. Topics include perception, motivation, and group behavior. MAN 4201 Organization Theory (MA) (3). A comparative analysis of various theories of organization (including the classical, biological, economic, and Cyert-March models); and of their treatment of fundamental structure; conflict communications; group and individual behavior; and decision-making. Primary emphasis on developing an integrated philosophy of organization and management. Prerequisite: MAN 3025 or equivalent.

MAN 4301 Personnel Management (MA) (3). Attention is locused on the theory and practice of modern personnel management as related to other management functions. Topics include: selection; training; job and performance evaluation; and incentive schemes. Special attention is given to human resource management and development at various organizational levels.

MAN 4320 Personnel Recruitment and Setection (MA) (3). In-depth study of the personnel staffing function. Includes an analysis of objectives, techniques, and procedures for forecasting manpower needs, recruiting candidates, and selecting employees.

MAN 4322 Personnel Information Systems (MA) (3). A survey of personnel reporting requirements; assessment of information needs; manpower planning; and development of integrated personnel systems. Prerequisites: CGS 3300 and MAN 4301.

MAN 4330 Wage and Salary Administration (MA) (3). Presents the theories and techniques used by management in the areas of work measurement, wage incentives, and job evaluation.

MAN 4401 Collective Bargaining (MA) (3). Introduction to labor/management relationships in the United States. Attention to the development of unionism as an American institution, government regulations, and collective bargaining in private and public sectors. A negotiation simulation generally is integrated with classroom work.

MAN 4410 Union-Management Relations (MA) (3). Examination of current issues and problems facing unions and management, with emphasis on unfair labor practices, contract administration, and arbitration. Students should complete MAN 4401 before taking this course.

MAN 4584 ProductIvity Management (DS) (3). Method and cases to measure, evaluate, plan and improve productivity in business and service organizations.

Prerequisite: Senior standing in the College.

MAN 4504 Operations Menagement (DS) (3). Concepts in design, analysis, and control of operating systems. Facility location and layout, work standards, maintenance, quality control, MRP, planning and scheduling applied to production and service systems. Prerequisites: MAN 3503 and QMB 3150.

MAN 4523 Production Information Systems (DS) (3). A study of the special problems associated with the development of information systems capable of supporting the production function of an organization. Review of information systems approaches to inventory control and work processing management. Prerequisites: CGS 3300 and MAN 4504, or consent of instructor.

MAN 4600 International Management (MA) (3). Introductory survey of management issues that confront the multinational enterprise. At least one class session is devoted to each of the following topics: review of basic trade theory; tariffs and trade barriers; organizational transfer, foreign exchange; institutions affecting the multinational manager (such as IMF. IDB, Ex-in Bank, EEC, IBRD). international financial management issues in multinational accounting: personnel management, comparative business customs and behavioral issues: import-export procedures: conflicts with national interests. Prerequisite: MAN 3602.

MAN 4610 International and Comparative Industrial Relationa (MA) (3). Examines selected industrial relations systems of Western Europe, Asia and the Americas, with special emphasis on differences among systems and the reasons such differences exist. The industrial relations significance of the multinational enterprise and management problems associated with operations in diverse systems are analyzed.

MAN 4613 International Risk Assessment (MA) (3). Introduces the types of risk confronting businesses operating internationally. Critiques specific techniques used to assess risk and relates the results to management decision making. Prerequisite: MAN 3602.

MAN 4629 International Business Internahip (MA) (3). Supervised work in a selected organization in the area of international business. Prerequisite: Consent ol instructor, department chairperson; and MAN 3602 and MAN 4600. MAN 4633 Strategic Menagement In the MNC (MA) (3), Study of the concept and process of MNC strategy. Involves considering the competitive and political structure of the global market, logic of the multinational enterprise, and nature of organizations. Prerequisite: MAN 3602.

MAN 4671 Special Topics in International Business (MA) (3). For groups of students who wish to study intensively a particular topic, or a limited number of topics, in international business, not offered elsewhere in the curriculum. Prerequisites: Approval of the faculty advisor, Director, and Dean.

MAN 4690 Independent Study In International Business (MA) (3). Individual conferences; supervised readings; reports on personal investigations. Prerequisities: Assignment of faculty tutor and written permission of Director and Dean.

MAN 4711 Social Responsibility and Social Accounting (ME) (3). The sources of the conception of corporate social responsibility. An examination of the classical doctrines as well as new approaches to the conception of the corporation as a citizen. A portion of the course will be devoted to a discussion of social accountability and social accounting as a specific problem in corporate input. Prerequisite MAN 3701 or consent of Instructor.

MAN 4722 Policy Analysis (MA) (3). The use of cases, guest lecturers, and gaming to integrate analysis and measurement tools, functional areas, and public policy issues. The objective is to develop skill in broad areas of rational decision-making in an administrative context of uncertainty. Prerequisite: Completion of all core requirements. Must be taken in last academic semester of senior year.

MAN 4731 Modern Business History (ME) (3). An examination of the history of the corporation in the United States since the Civil War, up to, and including, the development of the multinational corporation. An examination of the social and economic forces operative in the development of the corporate form. A full exploration of the current power of the corporate form and legal and other, efforts to limit this power. Prerequisite MAN 3701 or consent of the Instructor.

MAN 4741 Business Environment and Policy Formstlon (ME) (3). A course studying the conceptual and environmental forces which establish the framework of business strategy and tactical decision. A critical analysis of conceptual processes which can limit the

executive's capacity to respond to change in the total and in the business environment. Prerequisite: MAN 3701 or consent of Instructor.

MAN 4742 Business and the Environment (ME) (3). A course on the effect of industrialization and technological change on the physical environment. An examination of the current legal, economic and political consequences of pollution and environmental damage, and the abatement of these factors. Prerequisite: MAN 3701 or consent of Instructor.

MAN 4802 Small Business
Management (MA) (3). The
organization and operation of the small
business: accounting, finance,
production, and marketing subsystems.
The use of analytical approach.
Problems of manpower management
and information flow. Possible use of
EDP case studies.

MAN 4905 Independent Study In Management (MA) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor, Department Chairperson and Dean required. P/F only.

MAN 4930 Special Topics in Management (MA) (1-6). For students who wish an intensive study of a particular topic or a limited number of topics not otherwise offered in the curriculum. Consent of Jaculty supervisor, Department Chairperson, and Dean required. Grading option.

MAN 4949 Cooperative Education-Management II (MA) (1-3). Continuation of MAN 3949. Perrequisites: MAN 3949 and qualification for Cooperative Education Program.

MAN 5123 Human Interaction I: Personal Growth Laboratory (MA) (3). Experience designed to increase awareness of personal social impact, and sensitivity to the feelings of others; to improve interpersonal communication, and increase understanding of the change-fearning process. Study and analysis of class-group participation as well as other functional social groups

MAN 5524 Advanced Production Management (DS) (3) More advanced methods in master planning, forecasting, capacity management, production activity scheduling/control, MRP and inventory management. This course has a professional orientation similar to the APICS certification guidelines. Prerequisite: MAN 4504 or MAN 6501, or Department Chairperson's approval.

MAN 5930 Seminar in Personnel Management (MA) (3). Overview and examination of the various aspects of the personnel management function.

MAN 6051 Organization and Management Process (MA) (3). Analysis of organizations including the evolution of management thought and the effects of technology and the environment on the organization. Emphasis will be on such concepts as division of work, delegation and decentralization, leadership, motivation, work satisfaction; as well as planning, organizing, directing, and controlling.

MAN 6121 Interpersonal Behavior and Analysis (MA) (3). A human interaction-human relations training laboratory, designed to increase both self-awareness and understanding of behavior dynamics in groups. Course is intended to enable students to broaden their conceptual understanding of human interpersonal communications and conflict.

MAN 6124 Human Interaction II: Organizational Consultation (MA) (3). Theories and approaches to organization development and change. with a particular focus on public schools and organizations. Supervised laboratory on systematic consultation and action skills, including schools and organizations. Supervised laboratory on systematic consultation and action skills, including method of assessment (survey feedback, milling, confrontation meetings, systems analysis); agendasetting; feedback; coaching; third-party consultation for conflict management: and team training Prerequisite, MAN 5123

MAN 6145 Decision Styles and Managerial Effectiveness (MA) (3). An experiential, theoretical, and applied investigation of personal decision styles and their relation to management and human effectiveness. Focus upon analytic and intuitive styles of thinking

MAN 6204 Organization and Management Theory (MA) (3). Analysis and design of the structure and process of complex organizations. Effects of task uncertainty, growth, power, goals, and information technology on organization structure and control.

MAN 6245 Organizational Behavior (MA) (3). Individual, interpersonal, and small group behavior in complex organizations. Focus on behavior, its causes, and management interventions.

to improve organizational effectiveness. Research methods to study organizational behavior.

MAN 6265 Group Processes In Organizations (MA) (3). The social and psychological processes of organizational functioning. The roles played by small groups in organizational settings.

MAN 6295 Conflict In Organizations (MA) (3). A critical examination of the role and impact of interpersonal and intergroup conflict in organizations. Models as approaches to utilizing and resolving conflict toward constructive personal and organization ends will be emphasized.

MAN 6311 Advanced Personnel Management (MA) (3). Attention is locused on the theory and practice of modern personnel management, as related to other management functions. Topics include selection; training; job and performance evaluation; and incentive schemes. Special attention is given to human resources management and development at vanous organizational levels.

MAN 6321 Personnel Selection and Placement (MA) (3). Individual differences and their measurement in personnel selection and job placement. Job design and redesign.

MAN 6331 Compensation Administration (MA) (3). An in-depth analysis of Wages and salary administration, including such topics as job evaluation; wage incentive systems; and work sampling.

MAN 6351 Personnel Training and Development (MA) (3). Determining training needs. Training methods. The training staff. Supervisor development. Equal Employment Opportunity management.

MAN 6405 Labor Relations (MA) (3). Examines the collective bargaining system in the United States from the viewpoint of the practitioner. Various aspects of the environment, structure, processes, issues and impact of collective bargaining are considered. Special attention is given to the negotiation and administration of agreements.

MAN 6411 Collective Bargaining Topics (MA) (3). An advanced course in labor relations for students with some background who desire more depth than that provided in introductory courses. Topics of contemporary interest, such as public sector collective negotiations, are treated at length. MAN 6501 Operations Management (DS) (3). This course covers analysis, design, and operations of organizational systems. The systems approach is used to provide a framework or general model of analysis, to which specific concepts, quantitative techniques, and tools can be related. The material presented has application to any organization of people and machines, including hospitals, governmental agencies, service organizations, and industrial concems. Prerequisite: MAN 6569.

MAN 6529 Seminar in Production Control Systems (DS) (3). The control systems for production operations automation and its impact on organizations. Integrated operationalsimulation approach. Group and individual projects.

MAN 6559 Seminar in Management Science (DS) (3). New topics application areas will be explored. Lectures will relate to the latest advances in the theory and application of management science. Prerequisite: Instructor's approval.

MAN 6569 Managerial Decision-Making (DS) (3). This course will investigate and analyze the decisionmaking problems that managers face in business, volunteer organizations, government, and the public sector. Emphasis will be placed on providing a variety of decision-making experiences for the student. Prerequisite: QMB 6603 or equivalent.

MAN 6585 Productivity Management Seminar (DS) (3), Analysis of productivity in manufacturing and service organizations and methodology for productivity improvement. Extensive cases, projects, tours, and guests speakers. Prerequisite: Graduate students (or CBA certificate students).

MAN 6601 International Management (MA) (3). Graduate seminar focusing on management issues confronting the multinational enterprise. Includes basic trade theory; tariffs and trade barriers; organizational transfer, foreign exchange; international financial management; export-import procedures; comparative business customs; personnel management; and institutions affecting the multinational manager.

MAN 6603 Problems In Comparative Management (MA) (3). Discussion of literature, readings, and cases, aimed at underscoring the differences and similarities in management behavior in different countries and cultures. General instruction in obtaining and utilizing comparative data on management differences.

MAN 6606 International Business Environment (ME, MA) (3). A macro-examination of economic, political, and cultural variables affecting the organization. Emphasis will be placed on social indications and societal forecasting of change; organizational responses to change; and the nature and rate of change in different societies.

MAN 6608 International Businesa (MA) (3). International variables as they affect managers. Theoretical constructs and their application to specific problems in international business.

MAN 6615 International Labor-Management Relations (MA) (3). Comparative analysis of selected industrial relations systems and impact on multinational firms and international labor movements. Emphasis on empirical models and managementoriented case studies.

MAN 6617 Managing Global Production and Technology (MA) (3). An exploration fo the management of technology and its relationship to the dynamics of globalization of production in both manufacturing and service industries. Prerequisite: MAN 6608.

MAN 6635 International Business
Policy (MA) (3). An analysis of
corporate strategies in a rapidly
developing and changing world
environment. Emphasis will be placed
on forecasting, planning, and
contingency strategies. The course is
taught by case method and stresses the
environmental and institutional
constraints on decision making within
the organization. Corporate executives
are invited to attend whenever possible.
Prerequisites: ACG 6005, MAN 6245,
FIN 6428, and MAR 6716.

MAN 6675 Special Topics in International Business (MA) (3). For groups of students who wish to study intensively a particular topic, or a limited number of topics, in international business, not offered elsewhere in the curriculum. Prerequisites: Approval of the faculty advisor, Department Chairperson, and Dean.

MAN 6679 Master's Project In International Business (MA) (DS) (3). An individual research project on an international business problem, which may include field work (including internship), library research, computer modeling, or the use of an approved research methodology. Prerequisites: Assignment of faculty advisor and permission of Department Chairperson.

MAN 6695 Independent Study In Business (MA) (3). Individual conferences; supervised readings; reports on personal investigations. Prerequisites: Assignment of faculty tutor and written permission of Department Chairperson, and Dean.

MAN 6715 Business Environment and Public Policy (ME) (3). An examination of the economic, political, social and moral context in which management decisions are made. The focus is on the public policy environment of business, whereby community direction is transformed into corporate behavior.

MAN 6717 Corporate Negotlations (MA) (3). An examination and analysis of corporate negotiation strategies in such areas as collective bargaining, mergers, joint ventures, and with government regulation agencies. The legal environment affecting the negotiated process will be closely scrutinized, as well as internal and external political processes. Prerequisites: ACG 6005, MAN 6245, FIN 6428, MAR 6716, MAN 6606.

MAN 6726 Polley Analysis (MA) (3). The use of cases, guest lectures, and gaming to integrate the analysis and measurement tools, the functional areas and public policy issues. The objective is to develop skill in broad areas of rational decision-making in an administrative context of uncertainty. Should be taken in the last semester of master's program.

MAN 6805 Entrepreneurship (MA) (3). A discussion of the general theories, principles, concepts and practices of entrepreneurship. Heavy emphasis is placed on lecture, readings, case studies and group projects.

MAN 6830 Organization Information Systems (DS) (3). Introduction to information systems and their role in organizations from a user's viowpoint Survey and application of the basic concepts necessary for understanding information systems. Study of the main activities in the development cycle used to acquire information systems capability.

MAN 6905 Independent Study In Management (MA) (1-6). Individual conferences; supervised readings; reports on personal invostigations. Consent of laculty sponsor, Department Chairman, and Doan required P/F only

MAN 6910 Research Methods in Management (MA) (3). Covers the research methods and analytical techniques most widely used in research in human resources and general management. Emphasis is on helping students to become more aware of current techniques and their applications.

MAN 6911 Research In Systems
Development (DS) (3). Conduct an
individual research project or thesis on a
topic in the area of computer personnel,
systems analysis and design, or other
areas within the framework of the MIS
program, subject to the instructor's
approval. Prerequisite: ISM 6155.

MAN 6930 Mester's SemIner In Management (MA) (1-3). An examination of recent research findings in selected areas of current concern. Emphasis is placed on readings; active discussion; and small, short-term action and research projects. The student may make a preliminary selection of his/her master's thesis or project topic. Pererequisites: Consent of faculty sponsor, Department Chairperson, and Dean.

MAN 6974 Master's Project In Management (MA) (1-6). Each student is required to develop and conduct an individual research project or thesis on a topic of interest. The topic will be chosen in consultation with a faculty member in the College.

MAN 7146 Leadership I (MA) (3). Course identifies leadership theories and research bearing on modern management practice. Behavioral, situational and transformational theories of leadership are emphasized, compared and evaluated.

MAN 7147 Leadership II (MA) (3). Draws on research and case studies for understanding of adaptive leadership in turbulent, uncertain environments. Emphasis on effective management of innovation, entrepreneurial activity and new ventures.

MAN 7155 Fundamentals of Behavloral Research (MA) (3). Analytical tools to conduct systematic research. Methods of data collection in lab, survey and field research. Emphasis on principles of measurement and statistics to interpret/report behavioral data

MAN 7206 Organizational Analysis (MA) (3). Develops skills in organizational problem solving through applications of theory and research to actual problems. Emphasis on needs analysis, process consultation, team building and action research

MAN 7207 Theories of Organization (MA) (3). Organization functioning from

a macro perspective; emphasis on evolution, structure, design and processes of complex systems. Study of communication/information networks, inter-group processes and control strategies.

MAN 7235 Management Philosophy and Strategy (MA) (3). Compares various cross-cultural management philosophies to structure and function of different types of organizations. Emphasis on how to develop and implement a management strategy for maximum productivity in different organizations.

MAN 7275 Organizational Behavior Management (MA) (3). An introduction to the study of human behavior in organizations. Emphasis is given to management of individual and group processes including conflict attitudes, decision making, motivation and stress.

MAN 7305 Human Resource
Management (MA) (3). Personnel
management topics including personnel
selection, performance appraisal,
training design, employee development,
and compensation administration. Legal
and practical issues are emphasized.

MAN 7412 Labor-Management Topics (MA) (3). Presents various aspects of the labor-management relationship to provide a contemporary perspective. Emphasis on structure, processes, strategies and legal issues in collective negotiation and industrial relations.

MAN 7609 Comparative Management (MA) (3). Course focus is cross-cultural management, i.e., how cultural values influence managerial behavior. The problems of cross-cultural communications, leadership, motivation, and decision making are examined Prerequisites: Admission to Doctoral program and completion of doctoral core

MAN 7616 Multinational Firm Global Strategy (MA) (3). Overview of the strategic management and international business concepts that frame strategic activity in MNCs. Competitive business strategies in global and multidomestic industries. Pereequisite: Completion of business Ph.D. core.

MAN 7620 International Business Operations 1 (MA) (3). Examination of the functional management, operations and concerns of international businesses. Emphasizes analysis of probloms in managing joint ventures, licensing, barter, and technology transfer. Prerequisites. Admission to Doctoral program and completion of doctoral core. MAN 7621 International Business Operations II (MA) (3). Focus on political, economic, and national security issues which influence IB operations or strategies. Examines techniques for political and economic risk, assessment and reactions to such influences. Prerequisites: Admission to Doctoral program and completion of doctoral core.

MAN 7640 International Business Research Methods (MA) (3). Overview of IB academic research, emphasizing topics, literature, methods, information sources, applications, problems, and journal characteristics. Prerequisite: Admission to business doctoral program and completion of doctoral core.

MAN 7718 Analysis of Corporate Policy Methods (MA) (3). Links functional areas of management to provide integrated view of organization and public policy. Emphasis on measurement, analysis and conceptualization of organization as a totality of operations.

MAN 7814 Advanced Management Research (MA) (3). Covers applications of analytical methods in contemporary management research. Emphasis is given to complex research design strategies including multivariate techniques and multidimensional scaling.

MAN 7895 Seminar in Management (MA) (3), Key concepts in management ranging from individual worker styles to business ethics. Emphasis on topics such as men and women in organization, decision making styles, and attribution management.

MAR 3023 Marketing Management (ME) (3). A descriptive study emphasizing the functions and institutions common to marketing systems.

MAR 4103 Personal Seillng (ME) (3). The development of effective salesmen/customer relationships is emphasized. Selection, training, and motivation of the sales force, and the relationship between personal selling and the other elements of marketing strategy are analyzed.

MAR 4153 Retalling Management (ME) (3). An examination of the role of retailing in the marketing system. Attention is concentrated on fundamentals for successful retail management. The course emphasizes basic marketing principles and procedures, including merchandising; markup-markdown; pricing; stock-turn; and sales and stock planning.

MAR 4154 Cases in Retalling Management (ME) (3). This course treats the retail marketing concentration in terms of up-to-date merchandise management methods. Emphasis is on elements of profit, open-to-buy planning, return on investment, and inventory control. The course delineates the decisions made by retailing managements and reviews their available strategies. Prerequisite: MAR 4153 or consent of instructor.

MAR 4203 Marketing Channels (ME) (3). The course focuses upon institutions, functions, and flows within channels of distribution; and their integration into channels systems. Wholesaling and physical activity are emphasized. Same course as TRA 4203.

MAR 4243 International Marketing (ME, MA) (3). The course studies the information required by marketing managers to assist in satisfying the needs of consumers internationally. Special emphasis will be given to the constraints of the international environment

MAR 4244 Export Marketing (ME) (3). The course emphasizes practical approaches to export marketing, including marketing strategies by individual firms to serve loreign markets. Operational methods of identifying, establishing, and consolidating export markets are discussed, with particular attention to the needs of the smaller business.

MAR 4303 Advertising Management (ME) (3). The study of advertising in business and society, providing a broad understanding of advertising's social, communicative, and economic purposes. An examination of the types and functions of advertising. Discussion of research, media selection, budget determination, and other elements in the total advertising process.

MAR 4343 Promotional Strategy (ME) (3). The course deals with problems of decision-making in the areas of marketing communication methods, with primary emphasis on advertising.

MAR 4344 Advertising Campaign Management (ME) (3). Strategic approaches to managing advertising campaigns, including selection of approaches; market research; consumer target markets; media; advertisements; development and control of budgets. Prerequisite: MAR 4303 or consent of instructor.

MAR 4403 Sales Management (ME)
(3). Analysis of field sales management

with emphasis on the role of personal selling in the marketing mix, building an effective organization, and controlling and evaluating the sales force.

MAR 4503 Consumer Behavior (ME) (3). The course offers an introduction to the analysis of the consumer, as the basis for the development of the marketing mix.

MAR 4613 Marketing Research (ME) (3). An examination of the marketing research process and its role in aiding decision-making. Emphasis is placed on evaluation and utilization of research information in making marketing decisions.

MAR 4703 Current Issues In Marketing I (ME) (3). Intensive study of various topic areas in marketing. Course emphasizes student reading and research, with oral and written reports. Students electing to take this seminar may take no more than 3 credit hours of independent study in marketing.

MAR 4704 Current lasues in Marketing II (ME) (3). Students electing to take this seminar may not take independent study in marketing. Prerequisite: MAR 4703.

MAR 4713 Cases In Marketing Management (ME) (3). An analytic approach to the performance to marketing management. The elements of marketing mix as the focus of decision-making in marketing are studied, and the case method of instruction is employed.

MAR 4723 Marketing of Small Businesa Enterprises (ME) (3). Designed to develop an understanding of the principles and practices which contribute to the successful marketing operation of a small business enterprise, this course deals with marketing policies, techniques, and applications to aid the entrepreneur in this field.

MAR 4853 Marketing Strategy (ME)
(3). Analysis of marketing planning strategy including; strategic marketing; situation analysis, target strategy, positioning strategy, and the strategic marketing plan. Course will utilize a computer simulation. Prerequisites: MAR 3023, MAR 4503, MAR 4613, MAR 4713, and permission of instructor.

MAR 4907 Independent Study in Marketing (ME) (1-6). Individual conferences; supervised reading; reports on personal investigations. Consent of laculty tutor, Department Chairperson and Dean required. MAR 4933 Special Topics in Marketing (ME) (1-6). For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

MAR 4941 Marketing Internship (ME) (1-6). Full-time supervised work in a selected organization. Perequisites: At least twelve hours in marketing; consent of instructor and Department Chairperson.

MAR 4949 Cooperative Education in Marketing (ME) (3). Open to marketing majors who have been admitted to the Cooperative Education Program, with consent of Chairperson. Full-time supervised work with a participating organization in marketing. Report to the Chairperson are required.

MAR 6246 International Marketing (ME, MA) (3). This course discusses the nature and scope of international marketing, and explores problems facing multinational firms and other international marketing organizations, together with strategies for loreign market penetration. Prerequisite: MAR 6716 or permission of instructor.

MAR 6346 Advanced Promotional Strategy (ME) (3). The course focuses on planning, problem-solving, and decision-making, as they apply to promotion programs. Primary emphasis is on advertising, with discussion of the role of promotion in relation to other elements of the marketing program

MAR 6406 Advanced Sales Management (ME) (3). Analysis of personal selling's roles in marketing strategy using detailed cese studies on field sales management, working with channel organization, and planning and controlling sales operations Prerequisite: MAR 6716

MAR 6506 Advanced Consumer Behavlor (ME) (3). Modern comprehensive models of consumer behavior ere utilized as a framework for understanding consumer decision processes

MAR 6617 Advanced Marketing Research (ME) (3). The role of research in providing information for marketing decision-making, including an examination of the research process and the tools available to the researcher

MAR 6706 Current lasues in Marketing I (ME) (3). Intensive study of various topic areas in marketing Course emphasizes student reading and

research, with oral and written reports. Students electing to take this seminar may take no more than 3 credit hours of independent study in marketing.

MAR 6707 Current Issues in Marketing II (ME) (3). Students electing to take this seminar may not take independent study in marketing. Prerequisite: MAR 6706.

MAR 6716 Marketing Management (ME) (3). A study of analysis and application of theory and problem solving in marketing management. Emphasis will be on the role of marketing in the organization; planning the marketing effort; management of the marketing organization; control of marketing operations; and evaluation of the marketing contribution.

MAR 6717 Advanced Marketing Management (ME) (3). Course emphasis is on application and integration of concepts and tools, through participation in the marketing management of a lirm in competition with other firms. The course's local point is a computerized marketing management simulation.

MAR 6915 Independent Study In Marketing (ME) (1-6). Individual conferences; supervised reading; reports on personal investigations. Consent of faculty tutor, Department Chairperson and Dean required.

MAR 6936 Special Topica in Marketing (ME) (1-6). For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

MAR 7246 Seminer in International Marketing (ME) (3). Analyzes distinctive characteristics and trends in foreign markets. Explores alternative international marketing strategies, considering critical environmental differences among countries

MAR 7622 Marketing Research
Methodology (ME) (3). Philosephy,
concepts, methods of marketing
research design. Experimental methods,
sampling precedures, measurement
techniques, other methodological
considerations. Prerequisites Two other
courses in marketing research,
permission of instructor.

MAR 7623 Seminar in Marketing Environment (ME) (3). Examines the dynamic interaction between marketing management and the corporate environment. Encourages development of an ability to design and implement effective marketing strategies.

MAR 7667 Seminar in Marketing Management (ME) (3). Analytical approaches to strategical and tactical marketing and public policy decisions. Emphasis is on relevant concepts from behavioral sciences as applied to marketing decisions.

MAR 7786 Seminar in Marketing Theory (ME) (3). Intensive analysis of the nature and role of hypotheses, generalizations, and empirical regularities. Critical examination of theories of marketing and interaction of marketing theory and practice.

MAR 7815 Seminar in Foundations of Marketing Thought (ME) (3). Foundations of marketing, interdisciplinary relationships; reviews major research areas: the marketing mix, consumer choice models, segmentation, stochastic, and analytical models.

MAR 7845 Seminar In Services Marketing (ME) (3). Analyzes the nexus between services and marketing management. Identifies and appraises alternative corporate strategies within industries such as banking and finance, insurance, hospitality, entertainment and leisure, health care, and education.

MAR 7875 Sectorial Marketing (MA) (3). Course includes retailing, wholesaling, pricing, distribution, advertising, sales promotion and management, personal selling, international services and macromarketing; and marketing and economic development

MAR 7979 Doctoral Research In Marketing (ME) (3). Research while enrolled for a doctoral degree under the direction of laculty members. Prerequisite: Permission of Department.

QMB 3003 Quantitative Foundations of Business Administration (DS) (3). Elements and extensive applications of the following quantitative tools to Accounting, Finance, Economics, Marketing, Managoment and Production Algebra review, sets, combinatorics, matrices, linear and non-linear functions, derivativos and integrals with a view towards optimization. Case studies Open only to Business Administration majors. Prerequisito. College Algebra

QMB 3150 Application of Quantitative Methods in Business (DS) (3). Interence and modeling for business decisions under uncertainty Topics covered include survey sampling, confidence intervals and hypothesis testing for mean(s), variance(s), and proportion(s), chi-square test for independence and goodness of fit, correlation, linear regression, time series, and analysis of variance. Use of computer packages to solve real business problems. Prerequisites: College Algebra and STA 3132 or the equivalent.

QMB 4680 Simulation of Management Systems (DS) (3). Exploration of basic concepts in computer simulation of systems. Application of these concepts to a variety of managerial problems. Discussion of waiting line models, continuous simulation models; heuristic methods; and management games. Presentation of several computer programs and languages for simulation. Exposure to the operation and analysis of some simulation models. Prerequisites: CGS 3300 and MAN 3503.

OMB 4700 Principles of Operations Research I (DS) (3). Application of deterministic operations research models (such as linear and non-linear programming, networks, dynamic programming, and branch and bound techniques) to managerial problems of allocation, planning, and scheduling. Prerequisite: MAN 3503.

QMB 4905 Independent Study In Declsion Sciences (DS) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of instructor, Department Chairperson and Dean required. P/F only.

QMB 4930 Special Topics In Decision Sciences (DS) (1-6). For students who wish an intensive study of a particular topic or a limited number of topics not otherwise offered in the curriculum. Consent of instructor and Department Chairperson required Grading option.

QMB 6603 Quantitative Methods in Management (DS) (3). Introduction to basic quantitative tools for the analysis of problems arising in the management of organizations, and the application of these tools to real-life problems. Prerequisite: College Algebra and completion of the Computer Programming Proliciency requirement.

QMB 6805 Deterministic Models for Management Analysis (DS) (3). Applications of deterministic models such as linear and nonlinear programming, network analysis (PERT), dynamic programming, and branch and bound algorithms) to managerial problems of allocation, planning, scheduling, investment, and control. QMB 6845 Simulation of Management Systems (DS) (3). Basic concepts of computer simulation of systems; application of these concepts to a variety of management problems. Industrial dynamics, urban dynamics, and large system simulation. Simulation in economic analysis, heuristic methods, and management games are covered. Prerequisites: MAN 6569 and a Computer Programming Language.

QMB 6855 Stochastic Models for Management Analysis (DS) (3). Applications of probabilistic models (such as queuing, inventory, and renewal) to their managerial problems.

QMB 6875 Stochastic Models for Project Management (DS) (3). Review of deterministic models and principles. Introduction to GERT, critical path methods, criticality index, and resource considerations in stochastic networks. Emphasis on operational decision-making, advanced topics, and individual projects. Students use the computer, and existing programs, to analyze hypothetical project networks, and learn to interpret the results in order to facilitate operational decisions.

QMB 6905 Independent Study in Decision Sciences (DS) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of instructor, Despartment Chairperson and Dean required. P/F only.

QMB 6935 Seminar in Decision Sciences (DS) (1-3). An examination of recent research findings in selected areas of current concern. Emphasis is placed in readings; active discussion; and small, short-term action and research projects. Consent of instructor required.

QMB 6974 Project In Decision Sciences (DS) (1-6). Each student is required to develop and conduct an individual research project or thesis on a topic of interest. The topic will be chosen in consultation with a faculty member in the College and approved by the Department Chairperson.

REE 4043 Real Estate Analysis (FI) (3). Decision making processes for development, financing, marketing, and management of real estate within the framework of our governmental, economic, legal, and social systems; does not meet course content requirements of Florida real estate Commission for obtaining a real estate license.

REE 4104 Appraisal of Real Estate (FI) (3). Valuation and appraisal

framework applied to residential and income producing property; role of computers; valuation theory and process as a quide to business decisions.

REE 4204 Real Estate Financial Analysis (Fi) (3). Financial analysis and structuring of real estate projects; raditional and creative concepts and mechanisms for construction and permanent financing; portfolio problems; governmental programs; money and mortgage market analysis; computers and financial models.

REE 4303 Real Estate Investment (FI)
(3). Advanced concepts of acquisition, ownership, and disposition of investment property; taxation and tax shelter; cash flow projection; analysis of specific types of investment property; utilization of computers as a decision-making tool; models of real estate investment analysis; case analysis and policy formulation.

REE 4504 Real Estate Management (FI) (3). Theories and techniques of professional management of real estate including such topics as creating a management plan; merchandising space; economics of alternates; market analysis; the maintenance process; owner-tenant manager relations; operating budgets; tax consideration; ethics.

REE 4733 Real Estate Land Planning (FI) (3). Theories of city growth and structure, operations of the real estate market in land allocation; current practices in real estate land planning.

REE 4754 Real Estate and Regional Development Pollcy (FI) (3). A capstone course in integrating all the aspects of real estate and regional development learned in previous courses, projects, cases, and field trips. Prerequisite: Permission of instructor.

REE 4814 Real Estate Marketing (FI)
(3). Techniques of selecting, training, and compensating sales personnel; obtaining and controlling listings; process and methods involved in the selling of real estate; promotion activities; including advertising and public relations; growth problems; professionalism; ethics.

REE 4905 Independent Study in Real Estate (FI) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of laculty tutor, Department Chairperson, and Dean required.

REE 4930 Special Topics in Real Estate (FI) (1-6). For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty tutor and Department Chairperson required.

REE 5115 Income Property Appraisal (FI) (3). Valuation and appraisal framework applied to income properties; capitalization; rates and techniques; discounting and compound interest; mortgage-equity analysis. Includes Ellwood analysis; the role of computers; valuation as a guide to business decisions.

REE 6020 Industrial Real Estate I (FI) (3). General overview of industrial real estate, locusing on types of activities; locational requirements; financing techniques; brokerage; government influence; current trends; technological change; characteristics of industrial buildings.

REE 6021 Industrial Real Estate II (FI) (3). Introduction to investment and valuation problems in industrial real estate. Topics include: taxation and investment analysis; discounted cash flow techniques; appraisal framework applied to income properties. A computer will be utilized in approaching the above problems.

REE 6105 Appraisal of Real Estate (FI) (3). Valuation and appraisal framework applied to residential and income producing property; role of computers; valuation theory and process as a guide to business decisions. Prerequisite: REE 4303 or permission of instructor.

REE 6195 SemInar In Real Estate Valuation Theory and Practice (FI) (3). A study of the process of property valuation, utilizing cost, market and income approaches. The role of computers and mass appraisal techniques will also be examined. Prerequisities: Graduate standing and permission of Instructor.

REE 6207 Real Estate Financial Analysis (FI) (3), Financial analysis and structuring of real estate projects, traditional and creative concepts for construction and permanent financing; portfolio decisions, government programs; money and mortgage markets. Prerequisito REE 6306 or permission of instructor

REE 6295 Seminar In Real Estate Finance (FI) (3). A study of linancial institutions, their methods, and interregional flows of funds in mortgage markets. Further emphasis is placed on national economic policions affecting mortgage markets. Prerequisites: Graduate standing and permission of instructor.

REE 6305 Real Estate Investment (FI) (3). Advanced concepts of acquisition, ownership, and disposition of investment property; taxation; risk and return; cash flow lorecasting; financial structuring process; case analysis; strategy formulation. Prerequisite: REE 6306 or permission of instructor.

REE 6306 Real Property Analysis (FI) (3). A study of the decision making processes of real property asset management. Private and public policy issues regarding the housing process and the regulation of the real property business environment. Legal considerations of real property ownership, financing and transfer of interests. Prerequisite: Consent of instructor.

REE 6395 SemInar In Real Estate Investment and Taxatlon (FI) (3). The techniques of real estate investment analysis, utilizing present value and cash flow approaches. The impact of Federal taxation on real estate investment decisions. Prerequisites: Graduate standing and permission of instructor.

REE 6435 Legal Environment of Real Estate (FI) (3). Legal environment of real property ownership, transfer and brokerage; estates in land; sales contracts; mortgage transactions; titles; conveyances; landlord and tenant; restrictions; zoning; and eminent domain; does not cover Florida Real Estate License Law or licensing regulations of Florida Real Estate Commission; not a license "prep" course. Prerequisite: REE 4043 or REE 6306 or permission of instructor.

REE 6505 Real Estate Management (FI) (3). Advanced theories and techniques of professional management of roal estate; developing a management plan, morchandising space, market analysis; maintenance, operating budgets; fiduciary relationships. Prerequisito: REE 6306 or permission of instructor.

REE 6715 Regional Real Estate
Development (FI) (3). Operation of real
estate markets in land allocation, land
use decision making in real estate; real
estate leasibility studies, applied to
specific real estate projects
Prerequisito: REE 6306 or permission of

REE 6734 Real Estate Land Development (FI) (3). Real estate development, acquisition of raw land, zoning, subdivision into sites, provision of utilitios and services; Innancing; merchandising of improved sites. Emphasis on design and development of residential communities.

REE 6736 Real Estate Land Planning (Fi) (3). Advanced theories of city growth and structure; operations of the real estate market in land allocation; current practices in real estate land planning. Prerequisite: REE 6306 or permission of instructor.

REE 6755 Real Estate and Regional Development Policy (FI) (3). An advanced capstone course integrating all the aspects of real estate and regional development learned in previous courses, projects, cases, and field trips. Prerequisite: REE 6306 or permission of instructor.

REE 6795 Seminer in Urban Housing Pollcy Problems (FI) (3). Examination of national housing policies and their formulation; the role of the public and private sectors in regard to housing problems; effectiveness of various housing policies. Prerequisites: Graduate standing and permission of instructor.

REE 6816 Real Estate Marketing (FI) (3). Techniques of selecting, training, and compensating sales personnel; obtaining and controlling listings; creative selling techniques; promotion, advertising, and public relations; growth; ethics. Prerequisite: REE 6306 or permission of instructor.

REE 6825 Industrial Brokerage (FI)
(3). Delines distinction between industrial brokerage and general real estate brokerage; role and functions of the industrial broker; industrial brokerage practice. Includes negotiating and leasing; regulations and ethics.

REE 6906 Independent Study In Real Estate (FI) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of laculty tutor, Department Chairperson, and Dean required.

REE 6932 Special Topics in Real Estate (FI) (1-6). For groups of students desiring intensive studies of a particular topic or a limited number of topics, not otherwise offered in the curriculum Consent of laculty tutor and Department Chairperson required

REE 6935 Seminar in International Real Estate (FI, MA) (3). Current trends and issues affecting real estate on an international level. Topics include, the multinational corporation and its location decisions, loroign taxation; international trade and exchange rates.

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REE 6946 Industry Project (FI) (3). Advanced individual or group study of specialized problems in the real estate field. Guidance of study to be provided by real estate faculty. Prerequisite: Permission of advisor:

RMI 3011 Principles of Risk and Insurance (FI) (3). Risk Management, Elements of Risk Theory and Risk Bearing. The Insurance Industry, fundamentals and legal concepts in insurance. Overview of property and liability as well as life insurance policies.

RMI 4085C Introduction to International Insurance (FI) (3). Economic analysis of insurance trade. Business operations. International Insurance Marketing, Underwriting Claims Adjustments and Settlements. International insurance funds flow and regulations. Issues in international insurance.

RMI 4115 Life Insurance (FI) (3). Structure and Purposes of Life Insurance. Types and analysis of life insurance contracts. Elementary life insurance mathematics. Fundamentals of private pensions and group insurance.

RMI 4117 Personal Insurance Planning (FI) (3). Analysis of methods of handling personal risk exposures including insurance coverage alternatives. Integrating life, health and accident, property and liability, profitsharing; private and governmental insurance and pension programs. Prerequisite: RMI 3011.

RMI 4124 Health Insurance (FI) (3). The Economics of Health Insurance Types of Coverages; Marketing, Underwriting, Claims Adjustment and Administration. Private and Social Insurance programs. Regulations.

RMI 4135 Employee Benefit Plans (FI) (3). The concept of group insurance Marketing, Underwriting Claims Treatment and Administration of Group Policies. Establishment, Funding and Benefits of Private Pensions and Profit Sharing Plans. Prerequisite: RMI 4115.

RMI 4170 Life and Health Insurance (FI) (3). A review of life insurance contracts. Mathematics of Life Insurance. Fundamentals of Health Insurance. Life Insurance Accounting, Reserves, Operations and Investment. Prerequisite: RMI 4115.

RMI 4200 Property and Liability Inaurance (FI) (3). Fundamentals and legal environment of Property and Liability Insurance. Major P-L insurance lines including Fire, Marine, Automobile, Worker's Compensation, Homeowners' and Liability; functions of P-L insurers.

RMI 4220 Casualty Insurance (FI) (3). A broad concept of casualty insurance, including a thorough review of basic policies; dailies; underwriting losses; multiple line and comprehensive forms. Subjects covered include personal liability insurance, boiler and machinery insurance, air insurance, inland and ocean marine insurance, workmen's compensation, and surety.

RMI 4292 Property and Liability Insurance Operations (FI) (3). In-depth study of the functions and operations of P-L insurers. Will include Marketing, Underwriting, Rate-making and Claims Functions. Also Loss Control Activities, Administration, Investment, Reinsurance and Regulation. Prerequisite: RMI 4200.

RMI 4305 Risk Management (FI) (3). The Elements of Risk Theory and Risk-Bearing. Risk Identification and Analysis. Methods for handling risks with quantitative analysis of available alternatives including Self-insurance and Captive insurance concepts.

RMI 4405 Insurance Law (FI) (3), Legal environment and essentials of insurance law. Legal and non-legal liabilities. Regulation of insurance in Florida.

RMI 4500 Social Insurance (FI) (3). The History and Economics of Social insurance programs. Definition of the needy. Comparative analysis of social insurance programs for death, occupational and non-occupational disability, old age and unemployment.

RMI 4509 Business Insurance and Estate Planning (FI) (3). Essentials and Analysis of Estate Planning, Minimization and provisions for death transfer costs on estates and business interests.

RMI 4740 Insurance Underwriting and Claims Adjustment (Fl) (3). Examination of an underwriter's and rater's functions: Selection of risks, classification and rating. Deductibles, Reinsurances. Claims philosophy and practice, Investigation, Adjustment and Settlements.

RMI 4910 Independent Study In Insurance (FI) (1-6). Supervised study of insurance or insurance related topics, developments, current issues and anticipated trends. Study may be designed to investigate a specialized area or adopt a more general approach. Consent of laculty supervisor, Department Chairperson, and Dean required.

RMI 4935 Special Topics in Insurance (FI) (1-6). Intensive study for groups of students of a particular topic or a limited

number of topics, not otherwise offered in the Curriculum. Consent of faculty supervisor and Department Chairperson required.

RMI 5175 Life and Health Insurance (FI) (3). A review of life insurance contracts. Mathematics of Life Insurance. Fundamentals of Health Insurance. Life Insurance Accounting, Reserves, Dividend, Non-forfeiture values. Operations and Investment.

RMI 5297 Property and Liability Insurance (FI) (3). Comparative study of the structures and forms of the major property and liability insurance, policies, personal and commercial lines. Analytic determination of the choice of the optimal mode of protection or coverage. Major functions of insurers and regulation.

RMI 6008 Graduate Survey of Insurance (FI) (1-6). Graduate examination of current problems in insurance, including theory, uses of insurance in business organizations; property and liability insurance; life and health insurance.

RMI 6178 Mathematics of Life Insurance (FI) (3). Present Values and Future Values of Lump Sums and Annuities. Mortality Tables Single Premiums, Annual Premiums and Net Level Premiums. Reserves, Nonforfeiture Values and Dividends. Prerequisite: MAC 3233 or equivalent.

RMI 6912 Independent Study In Insurance (FI) (1-6). Supervised study of insurance or insurance related topics, developments, current issues and anticipated trends. Study may be designed to investigate a specialized area or adopt a more general approach. Consent of laculty supervisor, Department Chairperson, and Dean required.

RMI 6936 Special Topics in Insurance (FI) (1-6). Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the Curriculum. Consent of laculty supervisor and Department Chairperson required.

STA 3132 Business Statiatice (MS) (3). The use of statistical tools in management; introduction of probability, descriptive statistics, and statistical inference as included.

TAX 4001 Income Tax Accounting (AC) (3). A survey of federal income taxation with primary emphasis on the taxation of individuals and corporations. Prerequisite: ACG 4111 with grade of 'C' or higher.

TAX 4011 Taxatlon of Corporations and Partnerships (AC) (3). An in-depth study of income taxation of corporations and partnerships, including tax planning. Prerequisite: TAX 4001, with a grade of 'C' or higher, or equivalent.

TAX 4901 Independent Study In Taxatlon (AC) (1-3). Individual conferences, supervised readings, and reports on personal investigations. Prerequisite: Permission of the Director of the School of Accounting.

TAX 4931 Special Topics in Taxation (AC) (1-3). For groups of students wishing an intensive study of a particular topic(s) not otherwise offered in the curriculum. Prerequisite: Permission of the Director of the School of Accounting.

TAX 5066 Tax Research and Reporting (AC) (3). A study of tax planning aspects of a variety of business and other transactions. Emphasis will be placed upon perceiving tax issues and conducting research to resolve them. Prerequisite: Permission of Accounting certificate program advisor.

TAX 5106 Corporate Taxatlon (AC) (3). Tax implication of corporate formations, distributions, redemptions, liquidations, divisions, reorganizations, collapsibles, attributes, consolidations, S-Corp, AET and PHC's. Prerequisite: Permission of Accounting certificate program advisor.

TAX 5406 Texation of Estates and Trusta (AC) (3). Study of income tax aspects of decedents, followed by income taxation of estates and trusts (subchapter J). Special emphasis on "throw-back" rules, grantor trusts, charitable remainder trusts, and foreign trusts. Prerequisites: Permission of Accounting certificate program advisor.

TAX 5506 International Dimensions of Taxation (AC) (3). Tax provisions affecting foreign corporations and nonresident aliens, as well as those tax provisions affecting U.S. person's business and investment activities outside the U.S. Prerequisite: Permission of Accounting certificate program advisor.

TAX 5725 Tex Plenning (AC) (3). An exploration of the concepts of lederal income taxation and tax planning, from the point of view of the manager. Prerequisites: ACG 6308 and permission of accounting certificate program advisor.

TAX 5875 Seminar in Taxation (AC) (3). An in-depth study of recent legislative, administrative, and judicial developments in taxation. Prerequisite: TAX 4001 or equivalent, and permission of Accounting certificate program advisor.

TAX 5904 Independent Study In Taxation (AC) (1-3). Individual conferences, supervised readings, reports on personal investigations. Prerequisite: Written permission of instructor, Accounting certificate program advisor, School director, and dean.

TAX 5936 Special Topics in Taxation (AC) (3). Intensive study for groups of students of a particular topic or topics not otherwise offered in the curriculum. Prerequisite: Written permission instructor, Accounting certificate program advisor, School director, and dean.

TAX 6065 Income Tax Research (AC) (3). An in-depth study of the taxation and planning aspects of a variety of business and other transactions. Emphasis will be upon developing an ability to perceive tax issues and to conduct research to resolve them. Prerequisite: TAX 4001 or equivalent, and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6105 Texation of Corporations I (AC) (3). The study of the federal tax consequences of the formation, operation, reorganization and liquidation of corporations; election of Subchapter S status; distributions and redemptions. Prerequisite: TAX 6065 and admission to a graduate program in the School of Accounting or permission of the School Director

TAX 6115 Taxatlon of Corporations II (AC) (3). An in-depth study of the tax benefits inherent in multiple corporate groups, including consolidated returns and reorganizations. Prerequisites: TAX 6055 and TAX 6105, and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6205 Partnership Taxation (AC)
(3). The intensive study of the formation, operation, and dissolution of partnerships (general and limited)
Prerequisite: TAX 6065 and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6405 Estate and GIft Taxation (AC) (3). The study of the federal estate tax and federal gift tax provisions Prerequisite: TAX 6065, and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6415 Fiduciary Accounting and Taxation (AC) (3). The study of the income taxation of estates, trust, and the beneficiaries thereof, including the determination of distributable net income, and throwback rules. The grantor trust and income in respect of a decedent is emphasized. The use of trusts in tax and estate planning is also explored. Prerequisites: TAX 6065 and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6445 Estate Planning (AC) (3). An in-depth discussion of the use of estate tax planning tools, such as lifetime gifts, life insurance, the marital deduction, the use of trusts, future interests, annuities, powers of appointment, charitable transfers, and post-mortem planning. Prerequisite: TAX 6405 and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6505 International Taxation I (AC) (3). Federal income tax provisions applicable to non-resident aliens and loreign corporations. Prerequisite: TAX 6065 and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6515 International Taxation II (AC) (3). Federal income tax provisions applicable to U.S. persons, business, and investment activities outside the U.S. Prerequisite: TAX 6505 and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6805 Tax Accounting Theory and Policy (AC) (3). A study of the tax accounting concepts and the judicial doctrines inherent in the federal tax law, tax planning, and tax policy Prerequisite: TAX 6065 and admission to a graduate program in the School of Accounting or permission of the School Director

TAX 6835 Taxatlon of Deferred Compensation (AC) (3). The taxation of qualified and non-qualified pension and prolit-sharing plans, stock options, annuities, lump-sum distributions, death benefits, rollovers, self-employment plans, employee stock ownership plans, etc. Prerequisite: TAX 6065, and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6875 Current Developments In Taxation (AC) (3). The study of recent logislative, administrative and judicial developments in taxation. Prerequisities TAX 6065 and at least four additional

graduate tax courses and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6876 Transactions in Property (AC) (3) An in-depth investigation into tax problems relating to basis, capital gains and losses, and nonrecognition provisions for transactions in property with special emphasis on personal property transactions and securities investments. Prerequisites: TAX 6065 and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6877 Seminer in Texation (AC) (3). Intensive study of a particular topic or a limited number of topics. The topics included in this course will depend upon the availability of faculty with expertise in the following special classes of tax problems: advanced corporate taxation; taxation of not-for-profit institutions; interstate, state and local taxation; and others, as current developments demand. Prerequisites: TAX 6065 and TAX 6805 and admission to a graduate program in the School ol Accounting or permission of the School Director.

TAX 6905 Independent Study In Taxatlon (AC) (1-3). Individual conferences, supervised readings; reports on personal investigations. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6935 Special Topics in Taxation (AC) (1-3). Intensive study for groups of students of a particular topic(s) not otherwise offered in the curriculum. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 7067 Seminar: Special Topics in Taxation Research (AC) (3). Topics vary according to instructor and student interest in problems and issues on the frontier issues of taxation. Prerequisite: Permission of Doctoral advisor in Accounting.

TAX 6726 Tax Planning for Managers (3). An exploration of the concepts of lederal income taxation and tax planning, from the point of view of the manager. Prerequisites: ACG 6308 or equivalent and permission of Accounting advisor.

TAX 7815 Seminar: Tax Policy: An Analysis of the Issuee (AC) (3). An indepth examination of the horizontal and vertical equity issues in taxation, the effects on income distribution, business decisions, foreign balance of payments, public finance issues, and economic

policy. Emphasized are the areas of empirical research vis a vis legal research. Prerequisite: Permission of Doctoral advisor in Accounting.

TRA 4012 Trensportation Logistics (ME) (3). Consideration of transportation logistics and its relationship to production and distribution. Discussion of characteristics, management, legislation, and public regulation of various modes of transportation.

TRA 4101 Trensportetion Rate Making (ME) (3). Description and analysis of rate making, for both passenger and cargo, in the various modes of transportation including trucks, railroad, airlines, and ocean transportation. Classes may concentrate on one particular mode for practical applications.

TRA 4203 Physical Distribution
Management (ME) (3). Distribution in
overall company operations;
organization of the traffic function;
determination of classification and rates;
integration of transportation with
production flow, inventory management,
warehousing, marketing policies, and
plant location.

TRA 4240 Transportation Systems and Services (ME) (3). Survey and analysis of transportation modes, including rail, motor, air, water, pipeline and mass transit, and their impact on the social and economic systems; discussion of current problems.

TRA 4320 Transportation Regulation (ME) (3). Study of the economic and constitutional basis of transport regulation; the scope of regulation. Discussion of the regulation of industrial traffic and transport modes; the structure and policies of lederal and state regulatory agencies.

TRA 4380 Transportation Policy (ME) (3). Consideration of national transportation policy; the principal policy issues currently facing the transportation modes.

TRA 4410 Air Transportation (ME) (3). A comprehensive introduction to the total air transportation environment including general economic characteristics of basic areas; commercial, private, corporate, and airline categories; government promotion and regulation of the industry, including aircraft manufacturing and operation; air traffic control; and airport support and lunctions.

TRA 4411 Alrport Management (ME) (3). Application of management principles to airport operation, with

emphasis on unique characteristics of airport finance; government relations and regulations; airline relations and interdependence.

TRA 4412 Air Carrier Menegement (ME) (3). An introduction to the broad scope of airline management practices and policies. Particular emphasis on problem analysis in financing, marketing, scheduling, fleet planning, lacilities planning, maintenance, and general operations.

TRA 4510 Mass Transportation and Urban Problems (ME) (3). Urban and metropolitan transportation development; requirements, benefits and costs of alternative approaches to mass transit; management techniques and operating principles, policy and regulation.

TRA 4906 Independent Study In Transportation (ME) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of laculty tutor, Department Chairperson, and Dean required.

TRA 4936 Special Topics in Transportation (ME) (1-6). For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of laculty supervisor and Department Chairperson required.

TRA 4941 Transportation Internship (ME) (1-6). Full time supervised work in a selected organization. Prerequisites: At least twelve hours in transportation; consent of instructor and Department Chairperson required.

TRA 5245 Transportation Logistics (ME) (3). Quantitative methods applied to solving problems in business logistics; mathematical and statistical models; optionalization theory and simulation. Problems selected from areas of physical distribution management, inventory control, mode selection, and facility locations.

TRA 5401 Transportation Operations and Carrier Management (ME) (3). Contemporary management techniques as applied to carriers; management-problems peculiar to transportation firms; economic analysis of marketing problems; capital formation; costs; pricing; labor relations; and government regulation.

TRA 6035 Graduate Survey of Transportation Management (ME) (3). Graduate survey of transportation, its elements, and their impact on society. History, economics, and regulatory principles in transportation. Current policies and problems for all the major transportation modes.

TRA 6905 Independent Study In Transportation (ME) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor, Department Chairperson, and Dean required.

TRA 6936 Special Topics in Transportation (ME) (1-6). For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

College of Business Administration

Dean Charles A. Nickerson
Associate Dean Donald W. Fair
Associate Dean
Associate Dean,

ASSOCIATE DEAR,
North Miami Campus Sydney Roslow
Assistant Dean Anne M. Fiedler
Director, School of

Accounting Chairpersons: Lewis F. Davidson

Decision Sciences and Information
Systems Daniel Robey

Finance Arun J. Prakash Management and International Business Dana L. Farrow Marketing and

Environment Barnett A. Greenberg

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- Anderson, Gary, Ph.D. (University of Illinois), Assistant Professor, Finance
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- Apasu, Yao, Ph.D. (University of Southern California), Associate Professor, Marketing and Environment
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- Besr, Robert M., Ph.D. (University of lowa), Professor, Finance and Director, Broward Programs
- Beeton, William R., Ph.D. (Ohio State University). Professor, Finance
- Campfield, William, Ph.D. (University of Illinois), CPA, Professor Emeritus, Accounting

- Carter, Jack L., Ph.D. (University of Cincinnati), Assistant Professor, Accounting
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- Chang, Lucia S., Ph.D. (University of Texas at Austin), Professor, and Associate Director, Accounting
- Chusmir, Leonard H., Ph.D. (University of Miami), Awsociate Proffessor, Management and International Business
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- Dorsett, Herman W., Ed.D. (Columbia University), Associate Professor, Management and International Business
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- Feir, Donald W., M.Acc. (Bowling Green State University), CPA, Instructor, Accounting, and Associate Dean
- Fantl, Irving L., Ph.D. (New York University), CPA, Professor Emeritus, Accounting
- Farrow, L. Dana, Ph.D. (University of Rochester), Professor and Chairperson, Management and International Business
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- Hallbauer, Rosalle C., Ph.D. (University of Florida), CPA, CMA, Associate Professor, Accounting
- Haar, Jerry, Ph.D. (Columbia University), Associate Professor, Management and International Business
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- Harris, Judith A., DBA (Boston University), Visiting Assistant, Professor, Accounting
- Hendrickson, Harvey S., Ph.D. (University of Minnesota), CPA, Professor, Accounting
- Hodgetts, Richard M., Ph.D. (University of Oklahoma), Professor, Management and International Business
- Hogner, Robert H., Ph.D. (University of Pittsburgh), Associate Professor, Marketing and Environment
- Jarrett, Royland D., M.B.A. (American University), Regional Manager, Small Business Development Center
- Jerome, William T., III, D.C.S. (Harvard University). Distinguished University Professor, Management and International Business
- Jordan, Willabeth, M.P.A. (Florida International University), Instructor, Management and International Business, and Director, Center for Management Development
- Keys, James D., M.B.A. (Florida International University), Instructor, Finance
- Kirs, Peter J., Ph.D. (State University of New York at Buffalo), Assistant Professor, Decision Sciences and Information Systems

- Kranendonk, Carl J., M.B.A. (University of Tulsa), Instructor, Marketing and Environment
- Kroeck, K. Galen, Ph.D. (University of Akron), Associate Professor, Management and International Business, and Director, Doctoral Studies
- Kyparisis, Jerzy, D.Sc. (George Washington University), Assistant Professor, Decision Sciences
- Laskey, Henry A., Ph.D. (University of Georgia), Assistant Professor, Marketing and Environment
- Lavin, David, Ph.D. (University of Itlinois), CPA, Associate Professor, Accounting
- Lubell, Myron, D.B.A. (University of Maryland), CPA, Associate Professor, Accounting
- Luytjes, Jan B., Ph.D. (University of Pennsylvania), Professor, Management and International Business
- Magnusen, Karl O., Ph.D. (University of Wisconsin), Associate Professor, Management and International Business
- Maldique, Modesto A., Ph.D. (Massachusetts Institute of Technology), Professor, Management and International Business, and University President
- Mallen, David C., M.B.A. (Columbia University), Information Bid Coordinator, Small Business Development Center
- Mandakovic, Tomislav, Ph.D. (University of Pittsburgh), Associate Professor, Decision Sciences and Information Systems
- Milla, Joan P., Ph.D. (University of South Carolina), Associate Professor, Management and International Business
- Most, Kenneth S., Ph.D. (University of Florida), CPA, F.C.A., Professor, Accounting
- Nesbit, Marvin D., M.B.A. (University of West Florida), Director, Small Business Development Center
- Nicholls, J.A.F., D.B.A. (Indiana University), Associate Professor, Marketing and Environment
- Nickerson, Charles A., Ph.D. (University of Georgia), Professor, Accounting, and Dean
- Nunez, Leandro S., J.D. (Nova University), CPA, CMA, Lecturer, Accounting
- Oliva, Robert B., LL.M. (University of San Diego) CPA, Associate Professor, Accounting
- Ortiz, Marta, Ph.D. (University of Miami), Associate Professor, Marketing and Environment

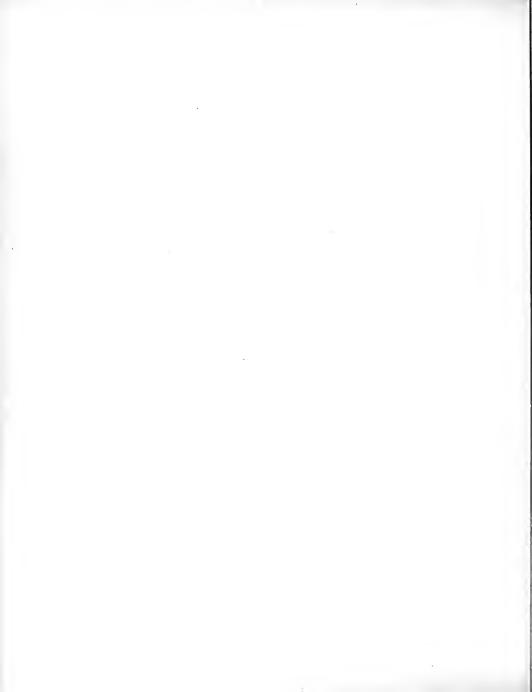
- Pak, Simon, Ph.D. (University of California, Berkeley) Associate Professor, Finance
- Parhizgari, Ali, Ph.D. (University of Maryland), Associate Professor, Finance
- Pernas, Elena M., M.B.A. (University of Miami), Instructor, Decision Sciences and Information Systems
- Polster, Eleanor, M.B.A. (Florida International University), Instructor, Management and International Business
- Pomeranz, Fellx, M.S. (Columbia University), CPA, CSP, Distinguished Lecturer, Accounting, and Director, Center for Accounting, Auditing, and Tax Studies
- Prakash, Arun, Ph.D. (University of Oregon), Professor and Chairperson, Finance
- Prakash, Ved, D.B.A. (The University of Tennessee), Assistant Professor, Marketing and Environment
- Raheem, Lynda, M.B.A. (University of Miami), Instructor, Marketing and Environment, and Coordinator of Graduate Programs
- Reese, Craig E., Ph.D. (The University of Texas at Austin), Professor, Accounting
- Renforth, William, D.B.A. (Indiana University), Professor, Management and International Business
- Robey, Daniel, D.B.A. (Kent State University), Professor and Chairperson, Decision Sciences and Information Systems
- Rodriguez, Leonardo, D.B.A. (Florida State University), Professor, Accounting and Management and International Business
- Roslow, Sydney, Ph.D. (New York University), Professor, Marketing and Environment, and Associate Dean, North Miami Campus
- Roussakis, Emmanuel, Ph.D. (Catholic University of Louvain, Belgium), Professor, Finance
- Sabherwal, Rajlv, Ph.D. (University of Pittsburgh), Assistant Professor, Decision Sciences and Information Systems
- Schlachter, Paul J., Ph.D. (University of North Carolina at Chapel Hill), Assistant Professor, Accounting
- Seaton, Bruce, Ph.D. (Washington University), Associate Professor, Marketing and Environment
- Marketing and Environment Seln, Maung K., Ph.D. (Indiana University), Assistant Professor, Decision Sciences and Information Systems
- Sennettl, John T., Ph.D. (Virginia Polytechnic Institute), Professor, Accounting

- Shepherd, Phillp, Ph.D. (Vanderbilt University), Associate Professor, Marketing and Environment
- Silverblatt, Ronnie, Ph.D. (Georgia State University), Associate Professor, Management and International Business
- Simmons, George B., D.B.A. (Indiana University), Distinguished University Professor, Finance, and Director, Bureau of Business Research
- Smith, Larry A., Ph.D. (State University of New York at Buffalo), Associate Professor, Decision Sciences and Information Systems
- Specter, Christine, D.B.A. (George Washington University), Assistant Professor, Management and International Business
- Still, Richard R., Ph.D. (University of Washington), Professor, Marketing and Environment
- Sullivan, Michael A., Ph.D. (Yale University), Assistant Professor, Finance
- Sutija, George, M.B.A. (Columbia University), Associate Professor, Management and International Business
- Taggart, WIIIIam M., Ph.D. (University of Pennsylvania), Professor, Management and International Business
- Tsalikls, John, Ph.D. (University of Mississippi), Assistant Professor, Marketing and Environment
- Valencia, Eloisa, MBA (Florida International University), Instructor, Decision Sciences and Information Systems
- Valenzi, Enzo R., Ph.D. (Bowling Green State University), Professor, Management and International Business, and Associate Dean
- Weinstein, Art T., MBA (Florida International University), Regional Director, Small Business Development Center
- Welch, William W., Ph.D. (University of Michigan), Associate Professor, Finance, and Associate Director, Center for Banking and Finance
- Wiskeman, Richard H., Jr., MBA (University of Miami), CPA, Distinguished Lecturer, Accounting
- Wrieden, John A., J.D. (George Mason University), Assistant Professor, Accounting
- Yeaman, Dorla, J.D. (University of Tennessee), Associate Professor, Accounting
- Zanakis, Steve H., Ph.D. (Pennsylvania State University), Professor, Decision Sciences and Information Systems

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Zdanowicz, John S., Ph.D. (Michigan State University), Professor Finance and Director, Center for Banking and Finance Zegan, Peter J., M.S. (University of Florida), Lecturer, Decision Sciences and Information

Systems



The College of Education has as its primary mission the improvement of educational practice. To fulfill its mission. the College offers instructional programs at the undergraduate and graduate levels, engages in research and development activities, and provides field services to the educational community. The mission of the College anses from a comprehensive view of education in a learning society in which demands for educational services are multiplying at an unprecedented rate. Accordingly, the College concerns itself with education broadly conceived, across the entire lifespan, in multiple settings and institutions, and in a variety of social and cultural contexts.

The College of Education has two major academic units designed to fulfill its mission: the Division of Curriculum and Instruction (C and I) and the Division of Educational Policy and Human Resource Development (EPHRD).

Division of Curriculum and Instruction programs include art education, biology education, chemistry education, early childhood education, elementary education, English education, history education, modern language education, music education, physical education, physics education, reading education, social studies education, special education, and teaching English as a Second Language (TESOL).

Division of Educational Policy and Human Resource Development programs include adult education and human resource development. educational leadership, educational psychology (including counseling and school psychology), international development education, vocational education programs (administration and supervision, business teacher education. health occupations education, industrial arts education, organizational training, post-secondary technical education, vocational home economics education. and vocational industrial education), and parks and recreation management.

The College also administers the Urban Education Program. It is comprised of the Urban Education Certificate Program and the Master's Degree in Urban Education.

Applicants to the College's programs should carefully examine the choices of major concentrations and program objectives. Because there are occasional revisions of College of Education curriculum during the academic year, some curriculum

changes may not be reflected in the current catalog. Prospective students are advised to contact appropriate advisors to ask for current information regarding specific programs of interest.

General advisement is available by telephone: (305) 554-2768 for University Park, (305) 940-5820 for North Miami Campus. Broward residents may call (305) 523-4422 for North Miami Campus or 474-1402 for the Broward Center. Dade residents may call (305) 948-6747 for the Broward Center. Specific program advisement is available by prearranged personal appointment with advisors at all locations.

Note: The programs, policies, requirements, and regulations listed in this catalog are continually subject to review in order to serve the needs of the University's various publics and to respond to the mandates of the Florida Board of Regents and the Florida Legislature. Changes may be made without advance notice. Please refer to the General Information section for the University's policies, requirements, and regulations.

Undergraduate Programs (Bachelor of Science)

Undergraduate students will complete at least 60 semester hours of study at the University, including a residency requirement of 30 semester hours prior to graduation. Before formal admission to the University, a student may be approved to take 15 credits as a non-degree seeking student which, if applicable to the major field of study and approved by an advisor, may be applied to the degree program.

Foundations of Education Requirement

Teacher education regulations in Florida require completion of one course in psychological foundations of education and one course in social foundations of education. These courses must be completed at the University prior to student teaching. Students must take Introduction to Educational Psychology (EDP 3004) to complete the psychological foundations requirement. Either Education in History (EDF 3521), Philosophy of Education (EDF 3723) may satisfy the Social Foundations requirement.

Reading Competence Requirement

Florida's Department of Education regulations require that teacher certification applicants show evidence of

preparation in specific skills for teaching reading. All undergraduate programs in the College are designed to meet this requirement.

Professional Education Core

Every teacher education student, during the junior year, must enroll in the following courses:

EDF 3723 Schooling in America 3 EDG 3321 General Teaching Lab I: Basic Teaching Skills 3 EDG 3321L General Teaching Lab I:

Laboratory 2
EDG 3322 General Teaching Lab II:
Human Relations Skills 3

Subsequent special teaching laboratories and courses build on these core courses to extend and refine knowledge and skill. All programs include one semester of student teaching in a public or approved non-public school. Student teaching requires the student to spend the entire school day on site.

Upon completion of all program requirements, the Bachelor of Science degree is awarded. The student is eligible to apply for a Florida Teaching Certificate in the field of specialization if the student has completed a College of Education State-approved program with a required 2.5 GPA in the teaching field to be taught. Other requirements for regular certification include submitting to the Florida Department of Education evidence of satisfactory CLAST scores and passing both the professional education and subject area subtests administered by the Department of Education. Applicants must also complete a Beginning Teacher Program approved by the Department of Education.

Undergraduate Admission Requirements

College of Education program standards are intended to insure that students have breadth and depth of background needed for successful upper-division work in education. In addition, they are designed to verify capabilities in the reading, writing, and thinking skills required for a teacher preparation program.

Applicants to the College must submit an Application for Admission to the University and must follow the regular University procedures. Applicants must be eligible for admission to the University before admission to the College.

Lower Division Prerequisites

All freshman and sophomore prerequisites for admission into an

academic program must be satisfied with a minimum grade of 'C' before admission is completed.

Students must satisfy either the Lower Division Core requirements or the General Education requirements,

In addition students must complete a computer awareness/computer application course (3 credits) and a public speaking course (3 credits)

Test Requirements: All teacher education candidates entering at the junior level must present a minimum score of 835 on the SAT or 17 on the ACT and satisfactory CLAST scores.

Undergraduate Grading Policies

Undergraduate students must have an overall GPA of 2.0 in order to graduate. A grade of 'C-' or less is not acceptable toward graduation in any required program of study course, either in the College of Education or any other unit of the University, Furthermore, a student will not be approved for student teaching with a grade of 'C-' in any required program of study course or a minimum county specific GPA. Specific undergraduate programs may have higher grading criteria than these minimums. Students applying for Florida Teacher Certification must present a GPA of 2.5 or higher in their teaching major.

Graduate Programs (Master's, Specialist, and Doctoral Degrees)

Graduate studies offered by the College provide specialization in degree programs developed to reflect individual student interests. A graduate program may include courses, seminars, field experiences, research courses, theses, and dissertations, depending upon the student's level and area of emphasis

Master's Degree Programs

Applicants for admission to most Master's programs in Education must hold or qualify for Flonda teacher certification in the appropriate area. All applicants must also satisfy Board of Regents admission requirements: A GPA of 3.0 in the last 60 semoster hours of undergraduate study or 1000 on the GRE. Applicants admitted with a pending GRE score must submit a test score within one semester to be fully admitted or become a candidate for graduation.

Note: Specific programs may have higher standards for admission.

Prior to formal admission to a graduate program, students may be approved to take 12 somester hours as

non-degree seeking students, which, if applicable to the major field of study and approved by an advisor, may be applied to the degree program.

Graduate students will complete at least 30 semester hours of study to earn a Master of Science degree in education. However, specific programs may require more than the minimum number of hours. Students may transfer six semester hours taken at another accredited college or university toward a master's degree program having 30-45 semester hours, and nine semester hours toward a program having more than 45 semester hours.

Master's program students must maintain an overall GPA of 3.0 in order to graduate. No more than two grades of 'C' and no grades of 'D' received in courses that are part of a master's degree program of study will be accepted toward graduation.

The reading competency requirement for master's programs may be met by taking either RED 4150 or RED 4325 at the undergraduate level; taking RED 6155, RED 6336, or RED 6305 at the graduate level; or, with advisor approval, participating in a school district's in-service education program in reading.

No more than two workshop courses may be included in a master's degree program.

Applicants who do not hold or qualify for Florida Teacher Certification may be eligible for the Alternative Track Master of Science Degree described in the Curriculum and Instruction section.

Educational Specialist Degree Programs

The College offers specialist programs in Curriculum and Instruction and in Educational Leadership. The programs require a minimum of 36 semester hours of work at the University beyond the Master's degree. However, specific programs may require more than the minimum number of hours and may include six semester hours of thesis if that option is chosen

Admission requirements and transfer of credit are the same as for the master's programs

Other program requirements are contained in the program descriptions which may be obtained from each program leader

Doctor of Education Degree Programs

The Doctor of Education degree is offered in Adult Education and Human Resource Development, Community College Teaching, Curriculum and

Instruction, Educational Leadership, and Exceptional Student Education. Advisement for these programs may be obtained by calling the appropriate Division Office or by contacting the Director of Graduate Programs at (305) 554-3206. Detailed admission requirements, program descriptions, and graduation requirements may be obtained from doctoral program advisors in specific areas and by examining program descriptions in this catalog.

North Miami Campus and Broward Center

The College of Education has programs of studies at the North Miami Campus and at the Broward Center on the Broward Community College Central Campus. Students interested in information regarding the North Miami Campus or Broward Center course offerings should call the College of Education at (305) 948-6747, (305) 523-4422, (305) 940-5820, or 474-1402.

The following areas of study are offered at the North Miami Campus, Broward Center, or both:

- Adult Education and Human
 Resource Development master's and doctoral degrees.
- Community College Teaching doctoral degree.
- Computer Education area of concentration and certification courses.
- Early Childhood Education area of concentration and certification courses.
- 5. Educational Leadership, Administration, and Supervision master's degree, specialist and doctoral degrees.
- Elementary Education bachelor's, master's degree, and certification courses.
- Exceptional Student Education certification courses.
- Health Occupations Education certification courses, bachelor's and
 master's degrees
- Reading Education master's degree
- Vocational Education certification, bachelor's and master's courses
- 11. Foundations and Professional Education Core:

EDP 3004	Introduction to
	Educational Psychology
EDF 3521	Education in History
EDF 3542	Philosophy of Education
EDF 3723	Schooling in America
EDF 3321	General Teaching Lab I
	Basic Teaching Skills

EDF 3321L General Teaching Lab I: Laboratory
EDF 3322 General Teaching

EDF 3322 General Teaching Laboratory II

12. Graduate Core Courses:

EDF 5481 Analysis and Application of Educational Research EDF 5432 Measurement and

Measurement and Evaluation in Education

Urban Education

Graduate Urban Education Certificate Program

This 15 semester-hour certificate program is designed to meet the needs of teachers working in urban schools.

Dade County Public School teachers currently teaching in Chapter I schools are eligible to apply for tuition reimbursement and stipends. A limited number of teachers are selected by Dade County Public Schools to participate in the program. Applications are available from, and should be submitted to, the Bureau of Education, Dade County Public Schools. Details concerning tuition reimbursement and stipends are available from United Teachers of Dade or the Bureau of Staff Development, Dade County Public Schools.

Topics which are included in the courses are the Urban Community, Affective Education Strategies, Assessment of Student Performance, Classroom Management, Language Development, Learning Styles, Motivational Techniques, Multi-Cultural Perspectives, Parent Community Involvement, and teaching the basic skills of mathematics and reading.

Admission

To be admitted to the program students must have a bachelor's degree from an accredited college or university; have a valid Florida Teaching Certificate; and be currently employed as a teacher in selected Dade County Chapter I Schools.

Required Courses: (33 semester

EDF 5941	Practicum I in Urban	
LDI 3541	Schools Education	5
EDF 5942	Practicum II in Urban	
	Schools Education	5
EDF 5943	Practicum III in Urban	
	Schools Education	5

Master of Science Degree in Urban Education

To be eligible to enroll in the Master's in Urban Education program, students must meet all the University's and the College of Education's admission requirements.

Required Courses: EDF 5941 Practi

 Practicum I in Urban Schools Education

5

EDF 5942 Practicum II in Urban Schools Education 5 EDF 5943 Practicum III in Urban Schools Education 5 FDF 5481 Analysis and Application of Education Research 3 EDE 5267 Education of the Child in Urban Society EDF 6211 Psychological Foundations of Education EDE 6488 Research in Elementary Education

Guided Electives: As approved by the student's advisor

Curriculum and Instruction

Robert V. Farrell, Associate Professor, Curriculum and Instruction and Chairperson

Arnhilda Badia, Associate Professor, Modern Language Education John Bath, Assistant Professor,

Science, Mathematics, and Elementary Education

Judith A. Blucker, Prolessor, Physical Education, and Vice Provost

Richard L. Campbell, Professor,
Science Education, and Dean of
Graduate Studies

Ida F. Chadwick, Associate Professor, Physical Education

Physical Education
Wendy Cheyney, Associate Professor,

Learning Disabilities
Stephen M. Faln, Professor,
Curriculum and Instruction

Robert K. Gilbert, Associate Professor, Mathematics Education

Chris U. Grosse, Assistant Prolessor, Modern Language Education/TESOL

E. Joseph Kaplan, Visiting Assistant Prolessor, Curriculum and Instruction

Sharon W. Kossack, Professor, Reading and Language Arts Education

Richard Lopez, Associate Prolessor, Exercise Physiology

Luretha F. Lucky, Associate Professor, Mental Retardation

Edwin C. McClintock, Associate Professor, Mathematics Education

Nancy Marshall, Associate Professor, Reading and Language Arts Education

Luls A. Martinez-Perez, Associate Professor, Science Education

Grover C. Mathewson, Associate Professor, Reading and Language Arts Education

Alicia Mendoza, Associate Professor, Early Childhood/Elementary Education

George S. Morrison, Professor, Early Childhood Education and Urban Education David E. Nathanson, Professor, Gifted Education and Mental Retardation

Loriana M. Novoa, Assistant Professor, Special Education and Educational Research

George E. O'Brlen, Assistant Professor, Science Education

George B. Pearson, Professor, Physical Education

Clem Pennington, Associate Professor, Art Education

Edward M. Reichbach, Associate Professor, Social Studies Education

Emma W, Rembert, Associate Professor, Reading Education

Howard Rosenberg, Associate Professor, Mental Retardation Colleen A. Ryan, Associate Professor,

Emotionally Handicapped
Robert Shostak, Professor, English
Education

Stephen S. Strichart, Professor, Learning Disabilities

Zola J. Sullivan, Associate Professor, Reading and Language Arts Education

Jan L. Tucker, Professor, Social Studies Education

Nicholas J. Vigilante, Professor, Mathematics Education

Michael J. Wagner, Professor, Music Education

Sandra Woods, Associate Professor

The Division of Curriculum and Instruction offers undergraduate and graduate programs for students who are interested in teaching in Early Childhood, Elementary, Secondary, and Special Education; and in Art, Music, and Physical Education in 1-12 grades.

The undergraduate programs are as follows: (Graduate programs are listed and described following undergraduate programs):

Early Childhood Education Elementary Education General: Grades 1-12

eneral: Grades 1-12
Art Education
Music Education
Physical Education (K-8, 6-12)
Teaching English as a Second
Language (TESOL)

Language (TESOL)
Secondary Education: Grades 7-12
Biology Education
Chemistry Education
English Education
History Education

Mathematics Education
Modern Language Education
Physics Education
Social Studies

Special Education Emotionally Handicapped Gilted Education

Learning Disabilities
Mental Retardation

Non-Teaching Specialization Exercise Physiology Sports Management

Upon Admission to the University and to the College, each student major in the Division is assigned an advisor in the teaching field who will assist the student in constructing a program of study. The program of study must comply with the University's degree requirements and will reflect the career goals of the student. Upon successful completion of the work specified in the program of study, the student is awarded a Bachelor of Science Degree with a major in a specific subject matter area or level of schooling (e.g., early childhood, elementary, secondary), and is eligible for regular teacher certification in the State of Florida upon successful completion of requirements specified by the Florida Department of Education.

Laboratory Experiences

Most courses offered by this Division require observation and participation in selected schools. The course descriptions identify those courses which require in-school classroom experiences guided by the directing classroom teacher and a University faculty member of the College of Education.

The student teaching assignments are fulfilled in designated field centers. This experience is on a full-time basis for a complete semester. Permission to student teach is contingent upon successful completion of all other requirements specified in the program of study. Students may be assigned to do their student teaching during the Fall or Spring semester of the senior year. There is no student teaching in the Summer semester.

Application for student teaching is the responsibility of the student. Necessary forms may be obtained from the Division office and should be returned early to the Division, but no later than two semesters prior to student teaching

Art Education: Grades 1-12

Degree: Bachelor of Science

Lower Division Preparation

An Associate of Arts Degree in Art, or (a) Art History Survey (6 semester hours) and (b) Basic and Figure Drawing (6 semester hours) and (c) Two and Three-Dimensional Design (6 semester hours)

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program: (71 semester hours)

Subject Matt ARH 4470 ART 3111C ART 3150C ART 3401C ART 3510C ART 3601C ART 3702C CTE 4421 Art Electives	er Specialization: (30) Contemporary Art, Art History Elective Ceramics Jewelry and Metals Printmaking Painting Photography Sculpture Creative Textiles	633333333
Profoselonal	Education: (41)	
EDF 3723	Schooling in America	3
EDG 3321	General Teaching	Ŭ
200 0021	Laboratory I	3
EDG 3321L	Laboratory	2
EDG 3322	General Teaching	
	Laboratory II	3
EDP 3004	Introduction to	
	Educational	
	Psychology	3
EDF 3521	Education in History	
EDE 05 10	or Di ilana di sala Fatana di sa	_
EDF 3542	Philosophy of Education	3
Reading Red		
RED 4325	Special Teaching	_
	Laboratory: Reading	3
Special Methods and Student Teaching: A student must complete the six semester hours of foundations course, and all core courses before enrolling in 4000-level special methods courses.		
	316 and ARE 4341 must bence before ARE 4940.	эe
ARE 4316	Special Teaching	

ARE 4316	Special Teaching	
	Laboratory: Art in	
	Grades K-6	
	(Spring Semester only)	3
	Prerequisite or	
	corequisite of 18 hours	
	required in subject matter	
	an countration	

	specialization.	
ARE 4341	Special Teaching Laboratory: Art in	
	Grades 7-12	
	(Fall Semester only)	3
	Prerequisite or	
	corequisite of 30 hours	
	required in subject matter	
	specialization.	
ARE 4940 Stu	dent Teaching in Art	12

3

Blology Education: Grades 7-12

Advisor Approved Electives

Degree: Bachelor of Science

Lower Division Preparation

Eight semester hours of biology, eight semester hours of general chemistry; eight semester hours of general physics; mathematics through analytical geometry

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program: (67 semester hours)

Subject Matter Specialization: (35)	
Genetics	3
Ecology	5
Physiology/Biochemistry	5
Electives in Biology ¹	7
Organic Chemistry	10
Quantitative Analysis	5

	Education: (32)	
EDF 3723	Schooling in America	3
EDG 3321	General Teaching	
	Laboratory I	3
EDG 3321L	Laboratory	2
EDG 3322	General Teaching	
	Laboratory II	3
EDP 3004	Introduction to	
	Educational	
	Psychology	3
EDF 3521	Education in History	
	or	
EDF 3542	Philosophy of Education	n 3

Reading Requirement:

RED 4325	Special Teaching Laboratory: Reading	3
		_

Special Methods and Student Teaching: A student must complete six (6 semester) hours of foundations courses and all core courses before enrolling in 4000-level special methods courses. A student must enroll for SCE 4330 and SCE 4944 in consecutive semesters.

SCE 4330	Special Teaching Laboratory: Science	3
	Prerequisite or	
	corequisite of 120 hours	
	required in subject matter	
	specialization.	
SCE 4944	Student Teaching	9

1BSC 3023, 3033; 3253; OCB 3010; BOT 3823; PCB 3703; BSC 3913 and 4914 are not applicable to this roquirement.

Chemistry Education: Grades 7-12

Degree: Bachelor of Science

Lower Division Preparation

Eight semester hours of general chemistry; eight semester hours of general physics; mathematics through Calculus I. Recommended Course: Organic Chemistry

To qualify for admission to the

program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program. Upper Division Program

Upper Division Program: (62 semester hours)

Subject Matter Specialization: (30)	
Organic Chemistry I and II	6
Organic Chemistry Laboratories	3
Quantitative Analysis and Laboratories	5
Physical Chemistry and Laboratory	5
Electives in Chemistry	8
Calculus II	3

Professional	Education: (32)	
EDF 3723	Schooling in America	3
EDG 3321	General Teaching	
	Laboratory I	3
EDG 3321L	Laboratory	2
EDG 3322	General Teaching	
	Laboratory II	3
EDP 3004	Introduction to	
	Educational	
	Psychology	3
EDF 3521	Education in History	
	or	
EDF 3542	Philosophy of	
	Education	3

Reading Re	quirement	
RED 4325	Special Teaching Laboratory: Reading	3

Special Methods and Student Teaching A student must complete six (6 semester) hours of foundations courses and all core courses before enrolling in 4000level special methods courses. A student must enroll for SCE 4330 and 4944 in consecutive semesters.

SCE 4330	Special Teaching Laboratory: Science Prerequisite or	3
	corequisite of 20 hour required in subject ma specialization.	
SCE 4944	Student Teaching	9

Sufficient number of hours to accrue to a total of 62 semester hours at the University.

Elementary Education: Grades 1-6

Degree: Bachelor of Science

Lower Division Preparation

An Associate of Arts Degree or equivalent preparation in basic general education. If a student has not completed equivalents of the courses noted below, these courses must be

completed prior to enrollment in requisite courses at the University with a grade of 'C' or higher.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

General	Education:

General Education:	
Mathematics (College Algebra	
or higher)	6
Physical Science	3
Biological Science	3
Music skills course (or demonstrated	
competencies)	3
Speech	3
Computer awareness/ computer	
application	3
Upper Division Program:	

(74 semester hours)

(14 semester	nours)	
Core Course:	s: (17)	
EDF 3723	Schooling in America	3
EDG 3321	General Teaching	
		3
EDG 3321L	Laboratory	2
EDG 3322	General Teaching	
		3
EDP 3004	Introduction to	
	Educational	
		3
EDF 3521	Education in History	
	or	
EDF 3542	Philosophy of Education	3
Program Cou	rses: (30)	

Program Courses: (30)
(Corequisite for all program courses:
placement in a field school is mandatory)

		•
ARE 3313	Experiencing Art in the	
	Elementary School	3
MUE 3313	Experiencing Music in	
	the Elementary School	3
EDE 4451C	Evaluation in the	_
	Elementary School	3
HLP 3013	Health and Physical	
	Education for Children	3
LAE 4314	Communication	
	Skills II	3
MAE 4312	Inquiry in the	
	Mathematics in the	
	Elementary School	3
RED 4150	Communication Skills I	3
RED 4311	Communication	
	Skills III	3
SCE 4310	Inquiry in Science in	
	the Elementary School	3
SSE 4312	Inquiry in Social Studies	
	in the	
	Elementary School	3

Internship I-A, I-B and I-C (to be taken with Program Courses above).

Internship I: Students are required to spend a minimum of two hours per week in an assigned elementary public school for each of the internship courses.

Student Teaching Block: All lower division prerequisites and program requirements must be completed before taking this block.

The Block consists of Internship III and Senior Seminar.

Internship II: This is a full time commitment for one semester after all

other program courses have been completed successfully with a grade of 'C' or higher. Student must make an application and register for this course. Internship II is not offered in the summer term.

EDE 4943 Internship II 12
EDE 4936 Senior Seminar in Elementary Education 3

Elementary Education	3
	15
Guided Electives in an Area of	

Concentration

9

3

3

1

Students using Primary Education (formerly Early Childhood) as a guided elective area of concentration must complete all of the following:
EEC 4005 Early Childhood

	Education Programs
EEC 4204	Curriculum and
	Instruction in Early
	Childhood Education
EEC 4301	Trends in Early
	Childhood Education
EEC 4940	Intemship I-A
EEC 4941	Internship I-B

Students using Pre-Kindergarten as a guided elective area of concentration must complete all of the following:

FEC 4266 Curriculum Programs -

EEC 4266	Curriculum Programs -	
	Infancy	3
EEC 4267	Curriculum Programs -	
	Preschooler	3
EEC 4704	The Education and	
	Development of Young	
	Children	3

Total Semester Hours for Elementary Education Majors 74

English Education: Grades 7-12

Degree: Bachelor of Science

Lower Division Preparation

Two courses in freshman English; survey of English literature I, II; six hours of English at the 2000-level, literature or composition. If the required courses beyond freshman composition are not completed they will be included in the student's program in addition to regular

upper division requirements.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program. Upper Division Program

Upper Division Program:

(62 semeste	r hours)	
Subject Mat	ter Specialization: (30)	
LIN 3010	Introductory Linguistics	3
LIN 4341	Modem Grammars	
	(Prerequisite: LIN 3010)	3
LAE 4464	Adolescent Literature	3
American Literature		6
English Literature		6
Shakespeare		3
Restricted ele	ectives	6

Professional Education; (35)		
EDF 3723	Schooling in America	3
EDG 3321	General Teaching	
	Laboratory I	3
EDG 3321L	Laboratory	2
EDG 3322	General Teaching	
	Laboratory II	3
EDP 3004	Introduction to	
	Educational	
	Psychology	3
EDF 3521	Education in History	
	or	
EDF 3542	Philosophy of	
	Education	3

Reading Requirement: RED 4325 Special Teaching Laboratory: Reading

A student must complete six semester hours of foundations courses and all core courses before enrolling in 4000-level special methods courses. A student must enroll for LAE 4335 and LAE 4942 in consecutive semesters.

3

LAE 4335	Special Teaching Laboratory English Prerequisite of 21 hours	3
	of English courses beyond lower division prerequisites.	
LAE 4942	Student Teaching 13 Prerequisite of 27 hours of English courses beyond lower division	2

prerequisites

History Education: Grades 7-12

Degree: Bachelor of Science

Lower Division Preparetion

Two courses in history and one course in the social sciences beyond freshman social science core (selected from anthropology, economics, geography, political science, or sociology)

~ To qualify for admission to the

program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program: (65 semester hours)

Subject Matter Specialization: (30) HIS 3001 Introduction to History	3
U.S. History at 3000, 4000, or 5000	·
levels	6
History other than U.S.	12
United States Government	3
SSE 4380 Global Perspectives	3
Advisor Approved Electives	3

Professional	Education: (35)	
EDF 3723	Schooling in America	3
EDG 3321	General Teaching	
	Laboratory I	3
EDG 3321L	Laboratory	2
EDG 3322	General Teaching	
	Laboratory II	3
EDP 3304	Introduction to	
	Educational	
	Psychology	3
EDF 3521	Education in History	
	or	
EDF 3542	Philosophy of	
	Education	3

Reading Requirement RED 4325 Special Teaching Laboratory: Reading 3

Special Methods and Student Teaching: A student must complete six semester hours of foundations courses and all core courses before enrolling in 4000-level methods courses. A student must enroll for SSE 4384C and SSE 4942 in consecutive semesters.

SSE 4384C	Special Teaching Laboratory: Social	
	Studies	3
SSE 4942	Student Teaching	12

It is recommended that the student consider a double major which combines a major in history education with a major in social studies, international relations, political science, economics, anthropology, sociology, or history. The student must consult with the history education advisor about these requirements.

Mathematics Education: Grades 7-12

Degree: Bechetor of Science

Lower Division Preparation

Trigonometry Analytic Geometry Calculus (through MAC 3413 or equivalent). To quality for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program: (65 semester hours)

Subject Matter Specialization: (30)

Thirty semester hours beyond calculus (MAC 3413 or equivalent), including at least six semester hours in probability and statistics, and three semester hours in computer science and geometry.

Professional	Education: (35)	
EDF 3723	Schooling in America	3
EDG 3321	General Teaching	
	Laboratory I	3
EDG 3321L	Laboratory	2
EDG 3322	General Teaching	
	Laboratory II	3
EDP 3004	Introduction to	
	Educational	
	Psychology	3
EDF 3521	Education in History	
	or	
EDF 3542	Philosophy of	
	Education	3

Reading Re	quirement:	
RED 4325	Special Teaching	
	Laboratory: Reading	

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Special Methods and Student Teaching: A student must complete six semester hours of loundations courses and all core courses before enrolling in 4000-level special methods courses. A student must enroll for MAE 433C and MAE 4942 in consecutive semesters.

MAE 4333C	Special Teaching Laboratory: Mathematics Prerequisite or corequisite of 24 hours required in subject matter specialization, including MTG 3212, STA 3321 and STA 3322, COP 3112, or approved substitutes; permission of instructor	3
MAE 4942 MAE 5648	required. Student Teaching Computers in Mathematics	9
	Education	3

Modern Language Education: Grades 7-12

Degree: Bachelor of Science

Lower Division Preparation

Four semesters of elementary and intermediate modern language (may be waived at the discretion of the advisor

for native speakers of the target language).

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program: (62 semester

hours)	
Subject Matter Specialization: (30)	
Phonetics or Contrastive Phonology	3
Introduction to Linguistics or Linguisti	CS
in Target Language	3
Civilization	3
Syntax/Composition	3
Literature in Target Language	6
MOL Electives	12
MGE Electrica	

Professional Education: (32) 3 **EDF 3723** Schooling in America General Teaching EDG 3321 3 Laboratory I 2 Laboratory EDG 3321L General Teaching FDG 3322 Laboratory II 3 EDP 3004 Introduction to Educational 3 Psychology Education in History **FDF 3521** Philosophy of FDF 3542 3 Education

Reading Requirement: RED 4325 Special Teaching

Special Methods and Student Teaching: A student must complete the six semester hours of foundations courses and all core courses before enrolling in 4000-level special methods courses. A student must enroll for FLE 4375 and FLE 4942 in consecutive semesters.

Laboratory: Reading

FLE 4375	Special Teaching Laboratory: Modern	
	Languages	

Prerequisite or corequisite of 20 hours required in subject matter specialization. FLE 4942 Student Teaching 9 Approved Electives: Sufficient number of hours to accrue to a total of 62 semester hours at the University.

Music Education: Grades 1-12

Degree: Bachelor of Science

Lower Division Preparation

An Associate of Arts Degree in Music or the following recommended courses: applied, four semesters; history, four semester hours; organizations, four semesters; techniques secondary instruments, four semester hours; theory, 12 semester hours; sight-singing, four semester hours; class piano, four semesters.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program (76 semester hours)

Subject Matter Specialization: (38)
Applied Music (Four semesters; hour
lessons on major
instrument each

semester)
Basic Conducting
Instrumental or Choral
Form and Analysis
Counterpoint
Guitar
Music History Survey I
Music History Survey II
Twentieth Century Music History
Orchestration
Organizations (2 each semester)
Research and Recital

Professional Education: (38) EDF 3723 Schooling in America

EDG 3321	General leaving	
	Laboratory I	3
EDG 3321L	Laboratory	2
EDG 3322	General Teaching	
	Laboratory II	3
EDP 3004	Introduction to	
	Educational	
	Psychology	3
EDF 3521	Education in History	

Reading Regulrement:

EDF 3542

٥r

Reading Requirement:
RED 4325 Special Teaching
Laboratory; Reading

Philosophy of

Education

Special Methods and Student Teaching: A student must complete the six semester hours of foundations courses and all core courses before enrolling in 4000-level special methods courses.

MUE 3332	Special Teaching Laboratory I: Music	3
MUE 4341	Special Teaching	Ť
	Laboratory II: Music	
	(K-12)	3
	Prerequisite or corequisite	
	of 20 hours rrequired in	
	subject matter	
	specialization.	
MUE 4940	Student Teaching	
	(Elementary and	
	Secondary)	12

Physical Education

Presently, the physical education program offers four tracks leading to a

Bachelor of Science degree in Physical Education. They are the teacher certification tracks, the exercise physiology track, and the sports management track. The two teacher certification tracks prepare the student for a Flonda teaching certificate in physical education, grades K-8 or grades 6-12. The exercise physiology track is designed for students interested in working in a cardiac rehabilitation or corporate fitness setting. The sports management track prepares students for managerial positions in sports-related fields.

Physical Education: Grades K-8

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Degree: Bachelor of Science

Lower Division Preparation

Required Courses:

First Aid; physical education major courses in social and folk or modern dance, aquatics, gymnastics, in addition to a minimum of two individual sports and two team sports. All required courses must be completed with a grade of 'C' or higher.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Remarks: Students who have not completed the required courses may apply for admission if the deficiencies are not greater that eight semester hours. However, all program prerequisites must be completed before entry into the senior year. Students must meet all College of Education admission requirements.

Upper Division Program:

(62 semester hours)
Professional Education: (17)

Professional	Education: (17)	
EDF 3723	Schooling in America	3
EDG 3321	General Teaching	
	Laboratory I	3
EDG 3321L	Laboratory	2
EDG 3322	General Teaching	
	Laboratory II	3
EDP 3004	Introduction to	
	Educational	
	Psychology	3
EDF 3521	Education in History	
	or	
EDF 3542	Philosophy of	

Subject Mai	ter Specialization:	(45)
ZOO 3731	Human Anatomy	ÌЗ
PET 3310	Kinesiology	3
PET 3351	Exercise Physiology	3
PEO 4041	Games in the Elemen	tary
	and Middle School	3

Education

3

DAE 3371	Dance in the Elementary	,
	and Middle School	3
PEP 3205	Gymnastics in the	
	Elementary and	
	Middle School	3
PET 4035	Motor Learning and	-
1 2 1 4000	Development	3
PET 4435	Special Teaching Lab:	•
PE1 4435		2
DET 40000	Physical Education: K-8	
PET 4662C	Athletic Injuries	3
PET 3640	Adapted Physical	
	Education	3
ARE 3313	Experiencing Art in	
	Elementary School	3
	or	
MUE 3313	Experiencing Music in	
MOE 3010	Elementary School	
A al		
	ved course in Reading of	
Language Art		3
PET 4945L	Student Teaching	9

Physical Education: Grades 6-12

Degree: Bachelor of Science

Lower Division Preparation

Regulred Courses:

First Aid or personal health or health education: three semester hours of anatomy or combined anatomy/physiology; physical education major courses in dance, aquatics, gymnastics, in addition to a minimum of two individual sports and two team sports. All required courses must be completed with a grade of 'C' or higher.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Remarks: All physical education majors are expected to be proficient in the following activities: football, soccer, volleyball, basketball, folk, social, and square dance, track and field, tennis, golf, gymnastics, and badminton. At the lower division, students should enroll in those courses in which they are least proficient. Students who have not completed the required courses may apply for admission if the deficiencies are not greater than twelve somester hours. However, all program prerequisites must be completed prior to entry into the senior year

Upper Division Program: (65 semester

nours)		
Professional	Education: (20)	
EDF 3723	Schooling in America	3
EDG 3321	General Teaching	
	Laboratory I	3
EDG 3321L	Laboratory	2
EDG 3322	General Teaching	

	Laboratory II	3
EDP 3004	Introduction to	
	Educational	
	Psychology	3
EDF 3521	Education in History	-
LD: 002.	or	
EDF 3542	Philosophy of Education	
RED 4235	Special Teaching Lab:	
NED 4233	Reading	3
	neading	3
	ter Specialization: (45)	
PET 3310	Kinesiology	3
PET 3351	Exercise Physiology	3
PET 3640C	Adapted Physical	
	Education	3
PET 4510	Evaluation in Physical	
	Education	3
PEO 4004	Coaching Sports	3
PET 4622C	Athletic Injuries	3
PET 3724	Physical Éducation in	
	the Middle School	3
PET 4011	Methods and Curriculur	'n
	in Team Sports	3
PET 4035	Motor Learning and	•
1 1 4000	Development	3
PET 4442	Physical Education in	3
FE1 4442	the Secondary School	3
PEP 4102	Methods and Curriculur	
PEP 4102		n
	for Fitness	_
	Development	3
PET 4401	Organization and	
	Administration of Physic	
	Education Programs for	
	Grades 6-12	3
PET 4945L	Student Teaching	9
	=	

Laboratory II

Exercise Physiology Track

The undergraduate exercise physiology track is designed to prepare individuals to work in the field of exercise testing. cardiac rehabilitation, and adult fitness. The track will prepare students for certification in two areas. Entry level certification in the first area is that of Exercise Test Technologist, which is provided by the American College of Sports Medicine, The second area of certification emphasizes the development of exercise programs for those with controlled disease or without disease. Certification is that of Fitness Instructor, which is also provided by the American College of Sports Medicine.

Admission Requirements Lower Division Preparation

Students will be required to meet the University lower division requirements In addition, they will be required to have a minimum of six credits in the biological and physical sciences. At least three of the six crodits must be in biology Entrance Exam: Students will be required to most the current entrance examination requirements of the College of Education Presently, those requirements are 840 on the SAT or 17 on the ACT

Upper Division Program: (60 semester hours)

PET 3351	Exercise Physiology	3
PET 5387	Exercise Test	
	Technology	3
PEP 5115	Fitness Instructor	3
PET 3310	Kinesiology	3
	or	
An approved a	alternative in Kinesiology	
or Applied An	atomy	
PET 4622	Athletic Injuries	3
	or	
An approved a	alternative in Athletic	
Injuries or Spo		
HUN 2201	Principles of Nutrition	3
	or	
HUN 3017	Nutrition for Health	
	Professionals	
	or	
	alternative in Nutrition	
PCB 3703	Human Physiology I	3
PCB 3704	Intermediate Human	
	Physiology	3
	or	

PCB 3704	Intermediate Human	_
, 000,01	Physiology	3
	or	
ZOO 3731	Human Anatomy	3
ZOO 3731L	Human Anatomy Lab	1
	or	
700 2722	Human Crass Anstonii	

200 3/33	numan Gloss Anatomy	
ZOO 3733L	Human Gross Anatomy	
	Lab	
	or	
Two Approve	d Electives in Biology	

Physiology: Undergraduate	3

Internship in Exercise

23

Sports Management Track Lower Division Preparation

PFT 4940

Electives

It is recommended that students complete introductory accounting and management courses as well as a variety of sports skill classes.

To qualify for admission to the program, students must have met all lower division requirements of the University. SAT or ACT test scores must be submitted. If the test scores do not meet the College's requirements, the student may request that a program advisor review the scores and other academic records for consideration for admission

Upper Division Program: (60

ours)	
Foundations of Human	ı
Physialogy	3
Kinesiology	3
Exercise Physiology	3
Coaching Sports	3
Athletic Injuries	3
Sports Administration	
and Management	3
Special Topics	6
Fitness Instructor	3
Sports Administration	
Internship	6-9
	Foundations of Human Physiology Kinesiology Exercise Physiology Coaching Sports Athlotic Injurios Sports Administration and Management Special Topics Fitness Instructor Sports Administration

BUL 4111	Business Law or	3	
PAD 4603	Administrative Law		
MAN 3025	Organization and		
	Management Decision		
	Styles	3	
	or		
PAD 4432	Administration Leaders and Behavior	hip	
LEI 3542	Principles of Parks and		
	Recreational		
	Management	3	
	or		
LEI 3524	Personnel Managemen Parks and Recreation	t in	

Advised Program Electives: (24-30) With the prior approval and knowledge of the program advisor, students will be allowed to choose electives which build a specialized degree program based on the student's long-term career goals. Examples of appropriate electives would include but not be limited to at least twelve total hours from such areas as Public Administration, Nutrition, Psychology, Sociology, and Parks and Recreation. Other appropriate courses from across the University may be used with prior approval from the program advisor and the selected department.

Physics Education: Grades 7-12

Degree: Bachelor of Science

Lower Division Preparation

Eight semester hours of general physics; eight semester hours of general chemistry, mathematics through calculus II.

Remarks: Linear Algebra is a prerequisite for multivariable calculus.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program: (64 semester hours)

Subject Matter Specialization: (30)	
Physics with Calculus	10
Physics Laboratories	2
Modern Physics	6
Electives in Physics	9
Multivariable Calculus	3

Professional	Education: (32)	
EDF 3723	Schooling in America	3
EDG 3321	General Teaching	
	Laboratory I	3
EDG 3321L	Laboratory	2
EDG 3322	General Teaching	
	Laboratory II	3

EDP 3004	Introduction to	
	Educational	
	Psychology	3
EDF 3521	Education in History	3
	or	
EDF 3542	Philosophy of	
	Education	3

Reading Requirement:
RED 4325 Special Teaching
Laboratory: Reading

Special Methods and Student Teaching: A student must complete six hours of foundations courses and all core courses before enrolling in 4000-level special methods courses. A student must enroll for SCE 4330 and SCE 4944 in consecutive semesters. Prerequisite or corequisite of 20 hours required in subject matter specialization

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Advisor Approved Electives: Sufficient number of hours to accrue to a total of 64 semester hours at the University

Social Studies Education: Grades 7-12

Degree: Bachelor of Science

Lower Division Preparation

Two courses in history and one course in the social sciences beyond freshman social science core (select from anthropology, economics, geography, political science, or sociology).

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program. Upper Division Program

Upper Division Program: (65 semester hours)

Subject Matter Specialization: (30)	
History	9
United States Government	3
GEA 3000 Geography	3
GEA 3000 Geography Economics Anthropology or Sociology SSE 4380 Global Perspectives	3
Anthropology or Sociology	
SSE 4380 Global Perspectives	3
Advisor Approved Electives	
Professional Education: (35)	

EDP 3004	Introduction to	
	Educational	
	Psychology	3
EDF 3521	Education in History	
	or	
EDF 3542	Philosophy of	
	Education	3

EDF 3723	Schooling in America	3
EDG 3321	General Teaching	
	Laboratory I	3
EDG 3321L	Laboratory	2
EDG 3322	General Teaching	
	Laboratory II	3

Reading Requirement:
RED 4325 Special Teaching
Laboratory: Reading 3

Special Methods and Student Teaching:
A student must complete six semester hours of foundation courses, and all core courses before enrolling in 4000-level special methods courses. A student must enroll for SSE 4384C and SSE 4942 in consecutive semesters.
SSE 4384C Special Teaching
Laboratory: Social
Studies 3
SSE 4942 Student Teaching 12

A minimum of 40 semester hours at the lower and upper divisions combined must be completed in the social studies subject matter specialization for certification. Electives must include sufficient semester hours in United States history (6), history other than United States (10), political science (6), geography (6), economics (6), anthropology (3), and sociology (3) to meet social studies certification requirements. It is recommended that the student considers a double major which combines a major in social studies with a major in history, history education, international relations, political science, economics, anthropology, or sociology. The student must consult with the social studies advisor about these requirements.

Special Education

The undergraduate special education programs utilize a competency-based and field-centered training model and lead to approval for Florida Certification in Specific Learning Disabilities, Emotionally Handicapped, and Mental Retardation. A student may elect a major in any one of the three areas. Courses leading to certification in the area of the Gifted are also offered at the graduate level.

The special education program recognizes that handicapped children are entitled to a free and appropriate public education, that all handicapped children are to be educated in the least restrictive yet most enabling environment and are to be mainstreamed to the greatest extent possible. Special educators also provide services to preschool children and adults.

Given this context, undergraduate special education programs emphasize the development of the following competencies to be demonstrated in both the University and field settings:

 Identifying and diagnosing students with learning and behavior problems.

 Prescribing and implementing appropriate individual educational plans to meet these problems.

Effecting appropriate instruction for children with learning and behavior problems.

Managing classroom behavior.
 Planning for mainstreaming and

parent conferencing.

Diagnostic-prescriptive and management skills are to be demonstrated with students who range from pre-school through adulthood, who are mildly, moderately, severely, and profoundly handicapped, and represent multicultural, multilingual backgrounds.

Degree: Bachelor of Science

Lower Division Preparation

An Associate of Arts Degree or equivalent preparation in basic general education. General Education Requirements as approved by the faculty of the College. See advisor for prerequisites.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program: (68 semester

	on Frogram. (oo semesi	
hours)		
EDF 3723	Schooling in America	3
EDG 3321	General Teaching Lab 1	3 ₩
EDG 3321L	General Teaching Lab I	2 4
EDG 3322	General Teaching Huma	ın
	Relations, Lab II	3
EDP 3004	Introduction to	•
20. 0004	Educational	
	Psychology	3
EDF 3521	Education in History	3
LD1 3321	or	3
EDF 3542	Philosophy of Education	. /
EEX 3010C	Introduction to	~
EEX 3010C		
	Exceptional Children	0
004 0000	and Youth ¹	3
SPA 3000	Introduction to Language	9 🗸
	Development and	
	Communication	
	Disorders	3
EEX 3221	Assessment of	
	Exceptional Children	
	and Youth	3
EEX 3202	Foundations of	
	Exceptionality ¹	3
EEX 4241	Academic Skills for	
	Exceptional Children ¹	3
EMR 4251	Educational Planning for	
	the Mentally	

Retarded 1,2 3

	or	
ELD 4240	Educational Planning for Specific Learning Disabilities ^{1,2} , ³ or	
EED 4227C	Educational Planning for	
	Emotional Handicaps ^{1,2}	
EEX 4242		3
EEX 4601	Behavioral Approaches	
	to Classroom	
		3
EEX 4611	Behavioral Approaches	
	to Classroom	
		3
RED 4150		3
LAE 4314	Communication	
		3
MAE 4312	Inquiry in Mathematics	
	in the	
EEV 1001		3
EEX 4861	Student Teaching 12	2
	se with advisor's	
consultation		3

¹Field Work Required. ²One of these three courses must be taken based on major. ³Senior Block

Note: Courses within the undergraduate training program require field placement during school hours. In addition to a full-time student teaching placement during the final semester of training, students engage in a senior BLOCK experience the first semester of their senior year. This experience requires fifteen to twenty-live hours a week of placement in an educational setting and class attendance at the University. Permission to student teach is contingent upon advisor's approval and upon satisfactory completion of all requirements specified in the program.

Graduate Programs

The following programs are offered for qualified student's who are interested in pursuing a Master's Degree: Art Education Early Childhood Education Elementary Education English Education Exceptional Student Education Emetionally Handicapped Mental Retardation Specific Learning Disabilities Mathematics Education Modern Language Education Music Education Physical Education Exercise Physiology Track Sports Management Track Reading Education Science Education Social Studies Education Teaching English to Speakers of Other Languages (TESOL)

Program applicants must present GRE scores for the Verbal and Quantitative sections. For Special Education graduate programs, applicants must present three letters of recommendation (at least one from academic sources and one from work or volunteer experiences) and an autobiographical statement. Candidates are admitted by action of the special education professors' Graduate Admissions Committee, Criteria for program acceptance include GRE scores, undergraduate grade point average during the junior and senior years, work and volunteer experience. quality and source of letters of recommendation, and the candidate's career aspirations and goals. A combined Verbal-Quantitative

GRE score of 1000 or GPA of 3.0 or higher during the undergraduate junior and senior years is needed for a candidate to be admitted via regular procedures.

Master of Science: Alternate Track

The Alternate Track modifies the existing master's degree programs to accommodate candidates with a baccalaureate degree appropriate to the certification area but without certification, who are seeking entry into the teaching profession. This modified track will be no less rigorous than the existing master's degree program, but it will include courses which provide the necessary background in professional education together with the master's level academic coursework.

Entry requirements include a bachelor's degree or a strong minor (30 hours with a 3.0 or higher in the major subject area) in a certifiable teaching area (i e mathematics, science, modern languages, music, art. English, social studies, history) and a minimum 3 0 cumulative GPA for the two most recent years of study or a combined GRE score of 1000 In either case, the GRE score must be submitted. In addition to the minimum GPA or the combined GRE score, or both, the applicant must receive an affirmative recommendation from the designated Program Leader. Dean of the College, or his designee following a personal interview

This modification of the degree program requires a minimum of four semester sequence which includes two Summer Terms, a Fall and a Spring Term and will consist of 45 48 semester hours, depending on each student's previous academic preparation

Alternate Track

All students admitted to this track will complete the following courses as well as the graduate program courses in

each of the chosen fields.				
EDF 3521	Education in History	3		
EDP 3004	Introduction to Educa	tional		
	Psychology	3		
EDG 3321	General Teaching, S	kills		
	and Lab	3		
A Special Teaching Lab: Area 3-6				
		6		

Art Education

Degree: Master of Science

Regulred Program: (36 semester hours)

Education, (15)	including Art Education:	
EDF 5481	Analysis and Application of Educational	1
	Research	3
ARE 6140	Curriculum and Instructi in Art	on 3
ARE 6262	Organization and Coordination of School and Community Art	
	Programs	3
ARE 6706	Seminar in Art Educatio Contemporary Issues	n:
	and Research	3

Select one o EDE 6205	f the following: Curriculum Design for Childhood Education	
ESE 6215	or Secondary School Teaching Field	
EEX 6051	or Exceptional Children a Youth	and
Five graduate art history: Art History	e art courses, including	one 3
Studio Art (TI	hree semester hours cre	dit
for each stud	io course)	12
Advisor Appre	oved Electives (2)	6

Early Childhood Education

Applicants for admission to the Master's program in Early Childhood Education must hold or qualify for Florida certification or equivalent in elementary education, and must satisfy requirements for scholastic aptitude as determined by the graduate admissions standards: GPA of 3.0 or 1000 on GRE. Applicants must submit GRE scores.

Degree: Master of Science

Standard Track

Dequired Program: (36 semester

3
3
3

EEC 6205	Education Programs for	
	Younger Children	3
RED 6305	Instruction in Reading	3
	ociology, or Anthropolog	У
course (consu	It advisor 4000-level	
course or high	er)	3
_		

Specialization Courses: Courses to be selected from among Early Childhood course listings, in consultation and with approval of advisor

Thesis Track

Required Program: (36 semester hours)

This master's thesis track provides a special foundation for doctoral Degree program entrance, Required Program: EDE 6205 Curriculum Design for Childhood Education FDF 5432 Measurement and Evaluation in Education EDF 5481 Analysis and Application of Educational Research 3 **EEC 6678** Research 3 EEC 6932 Seminar 3 **RED 6305** Instruction in Reading (Early Childhood) 3 Psychology, Sociology, or Anthropology

Specialization Courses to be selected from among course listings in either early childhood education, elementary education, or reading education, depending upon major

Elementary Education

course (consult advisor) EEC 6971

Applicants for admission to the Master's program in Elementary Education must: (1) hold or qualify for Florida certification or equivalent in elementary education, and (2) satisfy requirements for scholastic aptitude as determined by the graduate admissions standards: GPA of 3.0 or 1000 on GRE. The applicants must submit GRE scores. The final decision for admission rests with the Faculty Admissions Committee.

Degree: Maater of Science

Standard Track

Regulred Program: (36 semester

hours)		
EDE 6205	Curriculum Design for	
	Childhood Education	3
EDE 6225	Educational Program for	r
	Older Children	3
EDF 5432	Measurement and	
	Evaluation in	
	Education	3
EDF 5481	Analysis and Applicatio	n
	of Educational	
	Research	3
RED 6155	Instruction in Reading	3

Psychology, Sociology, or Anthropology course (consult advisor - 4000-level or higher)

Specialization Courses: Courses to be selected from among Elementary course only and in consultation and with approval of advisor. 18

Thesis Track

Required Program: (36 semester hours)

This master's thesis track provides a special foundation for doctoral degree program entrance

program emile	illou.	
EDE 6205	Curriculum Design for	
	Childhood Education	3
EDE 6225	Educational Programs	
	for Older Children	3
EDF 5432	Measurement and	
	Evaluation in	
	Education	3
EDF 5481	Analysis and application	1
	of Educational	
	Research	3
EDE 6488	Research	3
EDE 6930	Seminar	3
RED 6155	Instruction in Reading	3
	Sociology, or Anthropolog	у
course (consu		3
EDE 6971	Thesis	6

Specialization Courses: Courses to be selected from among course listings in either early childhood education. elementary education, or reading 6 education, depending upon major

English Education

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Degree: Master of Science

Required Program: (30 semester hours)

EDF 5481 Analysis and Application of Educational Research LAE 6339 Teaching English in the Secondary School¹ 3 ESE 6215 Secondary School Curriculum 3 LAE 6935 Seminar in English Education² 3 ¹Prerequisite: Undergraduate English

methods course Permission of Instructor required.

Teaching Field: English 15 Advisor Approved Electives: 3

Mathematics Education

Degree: Master of Science

Required Program: (33 semester hours) **EDF 5481** Analysis and Application of Educational Research

3

MAE 6336	Teaching Mathemat	ics in
	the Secondary Scho	
MAE 6899	Seminar in Mathem	atics
	Education ¹	3
ESE 6215	Secondary School	
	Curriculum	3
Teaching Fie	ld: Mathematics	12
Electives: In	Education or Mathem	atics.
or both		9

1Permission of instructor; undergraduate secondary mathematic methods, and mastery of programming language beyond Basic and graduate level mathematics coursework required.

Modern Language Education

Degree: Master of Science

Prerequisites: One course in general linguistics or the successful completion

of LIN 3010 or LIN 3013.

Applicants for Admission must hold

or qualify for a Flonda Rank III Certificate in the area selected, must satisfy requirements for scholastic aptitude as determined by the Graduate Admissions Standards, and must show evidence of a satisfactory record in the teaching field.

To be admitted into the Master's Degree program, the student must hold a bachelor's degree from an accredited university or college; have a 3.0 average or higher in all junior and senior year course work for the bachelor's Degree; or have a combined score (verbal and quantitative) of 1000 or higher on the graduate record examination; or hold a master's degree from an accredited university or college. In any case, the student must present a GRE score; achieve a score of 220 on the Test of Spoken English; and in the case of international students, whose first language is other than English, a score of 500 on the TOEFL examination is also required.

Degree Regulrements: The Master of Science Degree will consist of 30 semester hours. A maximum of six semester hours may be transferred into the program from outside the University. subject to the approval of the major advisor, Also, a maximum of six semester hours of upper division undergraduate courses may be included in the program provided they have not been used to satisfy dogroo requirements for an undergraduate program. This program does not include requirements for initial teacher certification by the State of Florida Department of Education.

The specific graduate requirements are: (30 semester hours)

complete the	tudents will be required following twelve semes: College of Education:	
EDF 5481	Analysis and Application	on
	of Educational	
	Research	3
ESE 6215	Secondary School	
	Curriculum	
	(or equivalent)	3
FLE 6336	Teaching Second	
	Language in the	
	Secondary School	3
FLE 6938	Seminar in Second	
	Language Testing	3
	d: Modern Languages : LIN 3010 - 3 semester	15

Field Component:
 The remaining three semester hours will consist of a supervised field experience in the teaching of one of the modern languages. The field experience may be

following options:

(a) Dade County Public Schools:

(b) private school;

arranged according to one of the

(c) adult or community college education;

(d) adjunct teaching at the University. All arrangements for field experience must be approved by the advisor.

Graduation Requirements: To receive the Master of Science Degree with a subspecialty in Second Language Education, Modern Language track, the student must complete the required 30 of coursework with a 18 average or higher.

Music Education

Degree: Master of Science

Required Program: (30 semester hours)

hours)		
ESE 6215	Secondary School	
	Curriculum	3
	or	
EDE 6205	Curriculum Design for	
	Childhood Education	
EDF 5481	Analysis and Application	n
	of Educational	
	Research	3
MUE 6349	Methodology of Music	
	Teaching	3
MUE 6938	Seminar in Music	
	Education	3
MUE 6815	Psychology of Music	
	Behavior	3
MUT 5325	Arranging	3
MUG 5105	Advanced Conducting	1
Advisor Appro		11

Physical Education

Presently, the physical education program offers three tracks leading to a

Master of Science degree in Physical Education. These are the teacher preparation track, the sports management track, and the exercise physiology track.

Teacher Education Program

Degree: Master of Science

Certification Track

Required Program: (36 semester hours)
Professional Education: (3 semester

hours)

EDF 5481 Analysis and Application of Educational Research 3

Area of Specialization: (21 semester hours)

PET 5216	Sports Psychology	3
PET 5238C	Perceptual Motor	
	Learning	3
PET 5256C	Sociology of Sport	3
PET 5606	Sports Medicine	3
PET 5436	Physical Education	
	Curriculum in	
	Elementary School	3
PET 6597	Survey of Research in	
	Physical Education	3
PET 6932	Seminar in Physical	
	Education	3
PET 4510	Evaluation in Physical	
	Education ¹	3
RED 6336	Reading in the	
	Secondary School ²	3
Electives	6-12	

¹Not required of students holding K-8 Certification

2Students who have already met the Reading Requirement as undergraduates or through approved inservice education may substitute an elective for this course. The course is not required of students holding K-8 certification in Physical Education.

Exercise Physiology Specialization

The graduate specialization in exercise physiology is designed to prepare individuals to work in the fields of exerciso testing in a supervisory capacity and in cardiac rehabilitation as a designer of exercise rehabilitation programs.

The programs will focus on the physiological effocts of exercise and training with application to the improvement of health and functional capacity of hospitalized and non-hospitalized individuals with heart disease. The program will emphasize the role of exercise in diagnosis, prevention, and rehabilitation of heart disease.

The program will enable students to develop the competencies required by the American College of Sports Medicine for certification as an Exercise Specialist, a Health Fitness Director, and a Program Director, Provisions will be made to enable those students entering the program without an Exercise Test Technologist Certification and a Health/Fitness Instructor Certification to develop those prerequisite competencies.

Admission Requirements: An applicant for admission to graduate study must meet the existing criteria set forth by the Florida Board of Regents. Presently, these are a 3.0 GPA in the third and fourth year of the undergraduate program, or a combined score of 1000 on the GRE (verbal and quantitative sections), or completion of a master's degree program at an accredited university. All applicants must submit a GRE test score.

Prerequisite Classes: One class in each of the following areas: exercise physiology, kinesiology or applied anatomy, physiology, and nutrition.

Required Program: (30 semester hours)

 Exercise 	e Physiology/Sports	
Medicin	e Requirement ¹	
PEP 5116	Exercise Specialist	3
PET 5606	Sports Medicine	3
PET 6786	Health Fitness Director	3
PET 6787	Exercise Program	
	Director	3

	logy/Biochemistry/Special Requirement
APB 4240	Human Systemic
	Physiology
	or

3

an approved alternative and

Total

a second approved course in physiology, biochemistry, special topics or nutrition 3 Research Requirement Advisor approved course in research.

Internship Requirement PET 6940 Internship in Exercise Physiology1

Electives² (0-6 semester hours)

1Students presently employed in the field in an administrative capacity may be exempted from this requirement. ²Students who have not taken PET 5387 Exercise Test Technology and PEP 5115 Fitness Instructor or who do not have ACSM certification in these areas must take these classes as part of their required program of study. Students who

have the classes or the certifications will take electives.

Sport Management

(non-certification track)

The purpose of this track is to provide an option for persons seeking a master's degree in an allied (non-teaching) career in physical education. This degree program would primarily be for persons who do not presently hold Florida teaching certification credentials. Consequently, completion of this degree would not provide such teacher certification for the degree recipients. Examples of potential student clientele would include all foreign and American college graduates with bachelor's degrees in physical education, sports science, business, recreation, and other related areas.

Admission Requirements: Students must hold a bachelor's degree form an accredited university. The published university requirements for admission into the master's degree programs must be met. Students who do not have an undergraduate major in physical education or a related area are responsible for meeting the prerequisites for any course listed in the program's curriculum. A program advisor must be consulted regarding complete degree requirements.

Required Program: (33 semester hours)

EDF 5481	Analysis and Applicati of Educational	on
	Research	3
PET 5216	Sports Psychology	3
PET 5256C	Sociology of Sport	3
PET 5606C	Sports Medicine	3
PET 6944	Supervised Field	
	Experience ¹	3-6
PET 5936	Special Topics: Sport	
	Management	2-4
PET 5416	Sports Administration	
	and Management	3

¹An internship in an appropriate sport agency or business will be required.

Advised Electives: (8-13 semester ... hours)

With the prior approval of the program advisor, students must elect at least nine credits from a variety of courses to build a specialized degree program based on long-term career goals. With approval from the appropriate department. examples of electives would include, but not limited to, graduate courses from such areas as business, management, public administration, parks and recreation administration, nutrition, psychology, sociology, and physical and occupational therapy.

Reading

The Master of Science in Reading develops competencies in diagnosis and remediation, teaching of reading K to 12. and administration and supervision of remedial, corrective, developmental, and content area reading programs. The graduate is competent to take leadership in improving reading instruction and prevent-ing reading failure in schools or

Requirements for admission to the Master's program in Reading Education are completion of an appropriate undergraduate teacher education program, satisfactory scholastic aptitude, as determined by the graduate admission standards a GPA 3.0 or 1000 on the GRE; applicants are required to submit GRE scores. Applicants must have taught for a minimum of three years prior to receiving the Master's degree in Reading.

Degree: Master of Science

Standard Track

This master's track is designed to meet the needs of students interested in reading assessment and instruction. This track and the thesis track both lead to State certification.

Required Program: (36 semeater hours)

110013/		
EDE 6205	Curriculum Design for	
	Childhood Education	3
EDF 5432	Measurement and	
	Evaluation in	
	Education	3
EDF 5481	Analysis and Application	ı
	of Education Research	3
RED 6155	Instruction in Reading	3
RED 6515	Programs of Remediation	n
	in Reading	3
RED 6546	Diagnosis of Reading	
	Difficulty	3
Psychology, s	ociology, anthropology, o	r
linguistics cou	irse in or outside of the	
		•

College of Education Specialization Courses: Courses to be

selected from among Reading or Language Arts course listings, in consul-15 tation and with approval of advisor

Thesis Track

This master's track is designed to meet the needs of students interested in pursuing independent research and provides a special foundation for doctoral degree program entrance. Admission requirements for this program are the same as for the regular Master's degree program.

Regulred Program: (36 semester hours) Curriculum Design for EDE 6205

Childhood Education 3

EDF 5432	Measurement and Evaluation in	
	Education	3
EDF 5481	Analysis and Application	
	of Educational	
	Research	3
RED 6155/		
RED 6305	Instruction in	
	Reading	3
RED 6515	Programs of Remediatio	'n
	in Reading	3
RED 6546	Diagnosis of Reading	-
1120 0040	Difficulty	3
RED 6747	Research in Reading	3
RED 6931	Seminar in Reading	-
1120 0001	Education	3
Peychology s	ociology, anthropology, o	
linguistic cour	se in or outside of the	•
	ucation (consult advisor)	3
RED 6971	Thesis in Reading	_
1120 0371	Education	6
Specialized C	ourses: One course to be	_
	among the course listing	
reading educa		3
reading educa	11/011	9

Science Education

Degree: Master of Science

Required Pr	ogram: (33 semester	
EDF 5481	Analysis and Applica	tion
	of Educational	
	Research	3
ESE 6215	Secondary School	
	Curriculum	3
SCE 6635	Teaching Science in	the
	Secondary School	3
SCE 6933	Seminar in Science	
	Education	3
Teaching Fie	ld	12
	hemistry or Physics or	
	n the following areas w	ith
	dvisor: Biology, Chemi	
	ology,and Environment	
Sciences (F	or Junior High Science	
Toochors)	or some right colones	

Social Studies Education

Degree: Master of Science

Advisor Approved Electives

Required Pr	rogram: (33 semester
hours)	
SSE 6633	Teaching Social Studie
	in the Secondary
	School
ESE 6215	Secondary School
	Cominguitum

3

12

	Curriculum	3
EDF 5481	Analysis and Application	1
	of Educational	
	Research	3
SSE 6939	Seminar in Social	
	Studies Education	3
Teaching Fig	ld Social Studies, Social	

Science, History

Advisor Approved Electives:

Special Education

The Division offers master's degree programs that prepare individuals to teach exceptional children and youth. Emphasis is given to the development of skills in assessment, prescriptive programming, behavior management, consultant and group leadership skills.

Program applicants are required to submit an application to the Office of Admissions. All applicants must present GRE scores for the Verbal and Quantitative sections, three letters of recommendation (at least one from academic sources and one from work or volunteer experience), and an autobiographical statement. Candidates are admitted by action of the Special **Education Graduate Admissions** Committee, Criteria for program acceptance include GRE scores, undergraduate grade point average during the junior and senior years, work and volunteer experience, quality and source of letters of recommendation, and the candidate's career aspirations and goals. A combined Verbal-Quantitative GRE score of 1000 or GPA of 3.0 or higher, during the undergraduate junior and senior years is required for a candidate to be admitted via regular procedures. Where these criteria are not met, candidates may be admitted by special action of the Division's Graduate Admissions Committee and the Dean's Office. Applicants who do not hold a valid Florida Teaching Certificate must complete all requirements for certification in addition to degree requirements.

Programs are offered in Exceptional Student Education: Diagnostic Teaching (Mental Retardation, Emotionally Handicapped, and Specific Learning Disabilities). All programs preparing school personnel are approved by the State of Florida and allow students completing the program to be eligible for certification by the State. Courses leading to certification in the areas of the Gifted are also offered.

Exceptional Student Education: Diagnostic Teaching

The major compotencies of the diagnostic teacher are an extension and refinement of those developed by the student in the undergraduate special education curriculum: a) Assessment of learning styles through observation and engeing monitoring techniques, b) application of behavioral approaches to the building, monitoring and remediation of classroom behavior, c) communication of information concerning children to others within the school and to parents, consultation

skills; d) curriculum planning and innovation including staffings and IEP; e) supervision of special education units.

Professional Certificate programs are available in a number of specialized areas. Consult the program faculty for further information.

Degree: Master of Science

In-Field Majors

The following program of study is for the student who holds an undergraduate degree in Special Education from Florida International University. A student with an undergraduate major in Special Education from another institution must plan a program with an academic advisor to ensure having the entry skills for this program.

Required Program: (36 semester hours)

hours)		
EDF 5481	Analysis and Application of Educational	
	Research	3
EEX 6050	Curriculum Planning	
	and Development	3
EEX 6227	Assessment of	
	Behavior	3
EEX 6211	Educational	
	Assessment	3
EEX 6535	Seminar in Special	
	Education: School	
	Administration	3
EMR 6852	Advanced Theory and	
	Practice: Mental	
	Retardation	3
ELD 6323	Advanced Theory and	
	Practice: Specific	
	Learning Disabilities	3
EED 6226	Advanced Theory and	
	Practice: Emotional	
	Handicaps	3
EEX 6846	Diagnostic Teaching	
	Advanced Practicum	3
EEX 5771	Independent Living and	
	the Handicapped	3
	or	
EEX 5250	Reading for Exceptional	
	Learners	
Electives		6

Out-of-Field Majors

A student eligible for or holding a teaching certificate in other areas of education should consult with an academic advisor for evaluation of entry competencies to the program. If entry competencies cannot be demonstrated either on the basis of course equivalents or work experience, the student will be asked to complete one or more of the tollowing courses in addition to those listed above for In-Field Majors

EEX 3221 Assessment of Exceptional Children

EMR 4251	Educational Planning for the Mentally Retarded 3
	01
ELD 4240	Educational Planning for Specific Learning Disabilities
	or
EED 4227	Educational Planning for Emotionally
	Handicapped
EEX 6051	Exceptional Children and Youth 3
EEX 4601	Behavioral Approaches to
	Classroom Learning 3
EEX 4611	Behavioral Analysis II 3
EEX 6106	Diagnostic Teaching:
	Acquisition of Language
	and Reading Skills 3
EEX 4861	Student Teaching 12

Doctoral Programs: Curriculum and Instruction

The doctoral program in Curriculum and Instruction offers specialties in the following areas: Art Education, Early Childhood Education, Elementary Education, English Education, Exceptional Child Education, Instructional Leadership, Mathematics Education, Music Education, Reading Education, Science Education, and Social Studies Education.

Applicants to the program must have a 3.25 GPA, a combined GRE score of 1000 on the verbal and quantitative sections, and must provide three letters of recommendation. Final decisions on admission are made by the Faculty Admissions Committee. Additional information can be obtained from the Division of Curriculum and Instruction in DM 284.

Core Courses	a: (15 semester hours)	
EDG 7222	Curriculum: Theory and	
	Research	3
EDG 7362	Instruction: Theory and	
	Research	3
EDG 7665	Seminar in Curriculum	3
EDF 7934	Seminar in Social	
	Foundations	
	of Education	3
EDF 6211	Psychological	
	Foundations	
	of Education	3

Specialty Area: (36 semester hours)
The specialty areas are art education, early childhood education, elementary education, English education, instructional leadership, mathematics education, music education, reading education, science education, and social studies education.

Cognate Area: (18 semester hours)
The cognate area requires a minimum of

18 semester hours of course in a single area of study related to the specialty. The courses should be chosen with regard to coherence and relevance to the anticipated substantive aspect of the dissertation and in consultation with the advisor. The cognate area may be taken in the other division of the College of Education, in the College of Arts and Sciences, or any other area offering courses relevant to the student's program.

Research and Statistics: (12 semester hours)
Required Courses
EDF 5481 Analysis and Application of Research 3

 EDF 6486
 Research Methods in Education: Design and Analysis
 3

 STA 5166
 Statistical Methods in Research I
 3

One of the following:
EDF 6403 Quantitative Foundations of Educational Research 3 or
EDF 6475 Qualitative Foundations of Educational Research

Comprehensive Examinations and Advancement to Candidacy: The student must successfully pass comprehensive examinations covering coursework and also submit copies of a dissertation proposal, which has been approved by the supervisory committee, to the Dean of the School and to the Dean of Graduate Studies.

Dissertation:

The student is responsible for 24 semester hours of dissertation credits. The dissertation must be an original contribution to knowledge in an area of early childhood education, elementary education, secondary education, one of the K-12 areas, or in instructional leadership.

The student is expected to complete the dissertation live years from the date of advancement to candidacy (i.e. successful completion of all written and oral examinations, lavorable recommendations of the supervisory and guidance committee, and an approved dissertation proposal). The credit hours of dissertation are taken per semester during the time that the dissertation is being completed. EDG 7980 Doctoral Dissertation 24

Exceptional Student Education

The Doctoral Program in Exceptional Student Education offers specialties in the following areas: Administration; Curriculum Development; and Research.

Students applying for the doctoral program must have a GPA of at least 3.25 and a combined GRE score of at least 1000 on the verbal and quantitative sections, three years of appropriate experience with exceptional individuals, a Bachelor's or Master's Degree in Exceptional Student Education or related area, and must provide three letters of recommendation, and an autobiographical statement.

The program components are as follows:

follows: Program Core: (15 semester hours) Seminars in Special EEX 6937 3 Education EEX 6208 Medical Aspects of Exceptionality 3 EEX 6301 Research in Cognitive Processes of Handicapped Students 3 Advanced Psycho-Social EEX 6203 Aspects of Exceptionality EEX 6535 Seminar in Special Education School Administration 3

Specialty Area: (30 semester hours)
Exceptional Student Education and/or related area (can be satisfied by appropriate master's level work)

Cognate Area: (15 semester hours)

The cognate area requires a minimum of 15 semester hours in one of the lollowing career thrusts: special education administrator; special education curriculum specialist; special education researcher.

Research and Statistics: (12 semester

hours)
EDF 5481 Analysis and Application of Educational Research 3
EDF 6486 Research Methods in Education: Experimental Design and Analysis 3
STA 5166 Statistical Methods 1 3
EDF 6403 Quantitative Foundations of Education 3

Additional courses in the area of the student's interests as determined by the student and his or her Program of Study Committee.

Electives

Comprehensive Examinations and Advancement to Candidacy: The student may be admitted to candidacy for the degree after the following conditions have been met:

a. Residency requirement

- b. Successful completion of Comprehensive Examination
- c. Recommendation of the Program of Study Committee
- d. Approval of a dissertation topic by the student's Dissertation Committee.

Dissertation: (EEX 7980). The student is responsible for 24 or more semester hours of dissertation credits. The dissertation must be an original contribution to knowledge in exceptional student education. The student is expected to complete the dissertation within five years from the date of advancement to candidacy.

Teaching English to Speakers of Other Languages (TESOL)

Degree: Master of Science

Prerequisite: One course in general linguistics or LIN 3010 or LIN 3013.

Requirements for admission are satisfactory scholastic aptitude as determined by the Graduate Admissions Standards, and evidence of a satisfactory record in the teaching field.

To be admitted into the Master's degree program, a student must, a) hold a bachelor's degree from an accredited university or college; b) have a 'B' (3.0) average or higher in all junior and in senior years course work for the bachelor' degree; or have a combined score (verbal and quantitative) of 1000 or higher on the Graduate Record Examination; or hold a master's degree from an accredited university or college; in any case the student must present a GRE score: c) achieve a score of 220 on the Test of Spoken English; d) in the case of foreign students whose first language is other than English, a score of 500 on the TOEFL examination is also required.

Degree Requirements: The Master of Science degree consists of 30 semester hours. A maximum of six semester hours may be transferred into the program from outside the University, subject to the approval of the major advisor Also, a maximum of six semester hours of uppor division undergraduate courses may be included in the program provided they have not been used to satisfy degree requirements for an undergraduate program.

This program does not meet requirements for initial teacher certification by the Flonda Department of Education

Prerequisite: Introduction to Linguistics is the prerequisite to study in the

program. It may be satisfied with LIN 3010 or LIN 3013.

Required Program: (30 semester hours)

Professional Education: (12) All students will be required to complete 12 semester hours in the College of Education:

EDF 5481 Analysis and Application of Educational Research

TSL 5142 Curriculum Development in ESOL ESE 6215 Secondary School

3

3

3

Curriculum TSL 5371 Special Methods of TESOL Seminar in Language FLE 6938 Testing

Program Courses: In consultation with the advisor, students will choose 15 semester hours from among five groups of courses from the Departments of English, Modern Languages, and the College of Education. The student must take one course from each category:

- LIN 4341 Modern English Grammar
- LIN 5206 Phonetics 3 LIN 5222 General Phenology SPN 5790 Contrastive Phonology LIN 5342 Advanced Syntax
- LIN 5805 Semantics LIN 5331 General Morphology and Syntax
- LIN 5405 Contrastive Analysis LIN 5625 Studies in Bilingualism 3 LIN 5602 Language Contact LIN 5600 Introduction to Sociolinguistics
- EDG 5707 Cross-Cultural 3 Studies FLE 5908 Individual Studies LIN 5715 Language Acquisition LIN 5701 Psychology of Language LIN 5107 History of the English Language LIN 5732 Error Analysis

Field Component: The remaining three semester hours will consist of a supervised field experience in the teaching of English to speakers of other languages. The field experience may be arranged according to one of the following options:

- 1 ESOL in Public Schools.
- 2. ESOL in adult or community college education, or both.
- 3 ESOL in private schools or private enterprise;
- 4 the English Language Institute at the University All arrangements must be approved by

Graduation Regulrements: To receive

the Master of Science degree in Curriculum and Instruction, with a subspecialty in Second Language Education, TESOL track, the student must complete the required 30 semester hours of coursework with a 'B' or '3.0' average or higher and no more than two 'C' grades in required courses.

Please refer to ESOL certification requirements for add-on certification in ESOL.

Certificate and Add-On Certification Programs

Graduate Professional Certificate Program in Reading and Language Arts

The Reading and Language Arts Certificate Program enables teachers to extend their competence in reading and language arts instruction. Completion of the Certificate Program qualifies the teacher to receive Florida State Certification in Reading, grades K-12. Entrance requirements are an introductory reading course, and a 2.75 GPA in the last two years of college work, and two years of college work. Students are required to have completed two years of full-time teaching prior to completing the program. Applicants should apply directly to the Chairperson of the Reading Program.

Prerequisite Course

RED 6155 or RED 6305 Instruction in Reading 3

Required Program:

Measurement and EDF 5432 Evaluation in Education 3 LAE 5414 Children's Literature 3 LAE 6355 Instruction in Language Arts 3 **RED 6546** Diagnosis of Reading Difficulty **RED 6515** Programs of Remediation in Reading

Electives1 Two courses chosen from languagerelated courses offered outside of the College of Education Elective courses are chosen from an approved list in consultation with a

Reading Program advisor

Professional Certificate Program in Specific Learning Disabilities, Emotionally Handicapped, and Mentally Handicapped

In order to meet the needs of tuachers not wishing to enter a Master's Degree program, but who wish to complete state certification in a sequential and planned program of study, the University has established three Professional Certificate Programs: Specific Learning Disabilities, Emotional Disturbance, and Mentally Handicapped. The entrance requirement is eligibility for or possession of a Florida Teaching Certificate.

In the event a student enrolled in the Professional Certificate Program elects to apply course work taken toward meeting the requirements for a Master of Science Degree, the student will need to follow the regular entrance procedures for the Master's Degree program.

Required Program:

Specific Learning Disabilities

EEX 6051	Exceptional Children	
	and Youth	3
EEX 6106	Diagnostic Teaching:	
	Acquisition of Language	
	and Reading Skills	3
EEX 6227	Diagnostic Teaching:	
	Educational	
/	Assessment	3
EEX 4601	Behavioral Approaches	
	to Classroom Learning	3
EEX 6211	Assessment of	
	Behavior I	3
ELD 6323	Advanced Theory and	
	Practice: Specific	
	Learning Disabilities	3
ELD 4240C	Educational Planning for	•
	Specific Learning	
	Disabilities	3
Emotional Di		
EEX 6051	Exceptional Children	3
	and Youth	J
EEX 6106	Diagnostic Teaching:	
	Acquisition of Language	3
55V 0007	and Reading Skills	J
EEX 6227	Diagnostic Teaching: Educational	
		3
EEV 1001	Assessment	-
EEX 4601	Behavioral Approaches o Classroom Learning	i 3
EEX 6211	Assessment of	٠
EEX 6211	Behavior I	3
EEX 6612	Diagnostic Teaching:	٠
ECY 0015	Systems and Behavior	
	Models	3
EED 4227C	Educational Planning for	-
ECU 422/0	Lucational Figurity 10	٠.

Mantally	Hand	loannad	

EMR 6852

Mentally Ha	ndicapped	
EEX 6051	Exceptional Children	
	and Youth	(
EEX 6106	Diagnostic Teaching:	
	Acquisition of Language	
	and Reading Skills	(
EEX 6227	Diagnostic Teaching:	
	Educational	
	Assessment	;
EMR 4360	Educational Planning for	r
	the Mentally Retarded	;

Emotional Handicaps

Advanced Theory and

Practice for the

3

3

3

3

EEX 5771

Mentally Retarded Independent Living for the Handicapped

3

3

Certification in Gifted Education

Individuals who hold Florida teacher certification in any subject or field, may receive certification for teaching the gifted (Grades K-12) by completing the following courses:

EGI 5051	Nature and Needs of	
	the Gifted	3
EGI 5232	Educational Procedure	s
	and Curriculum for	
	the Gifted	3
EEX 6732	EX 6732 Guidance and Counsel	
	of Gifted Students	3

Add-on Certification in ESOL

Individuals who currently hold or are working toward a teaching certificate in any area of education may receive addon certification in ESOL by completing a set of courses in ESOL, and demonstrating language proficiency in English. For admissions and graduation requirements, please refer to the Degree program.

Requ	ired	Pro	gra	ım:
------	------	-----	-----	-----

¹Prerequisite: LIN 3010

Required Pro		
FLE 6938	Seminar in Second	
	Language Testing	3
EDG 5707	Cultural and Cross-	
	Cultural Studies	3
LIN 5625	Studies in Bilingualism1	3
TSL 5371	Special Methods of	
	TESOL1	3
TSL 5142	Curriculum Developmen	t
	in ESOL	3

The language proficiency instrument, (the Test of Spoken English (TSE) will be administered at the University on a regularly scheduled basis. Please consult the Director of the Teacher Training Program in Bilingual Education for further information. These courses can also be taken

by interested individuals for the purpose of add-on certification only. Requirements for admissions are a valid Florida Teacher's Certificate and a score of 220 on the Test of Spoken English.

Students are also encouraged to take, in addition to their regular program, EGC 6469, Counseling the Culturally Different, and EDF 6444, Non-Biased Assessment of the Culturally Different.

Division of Educational Policy and Human Resource Development

Robert Vos, Associate Professor, Organizational Training, Technical Education, Vocational Education, and Chairperson

Carlos, M. Alvarez, Associate Professor, International Development Education

Rosemere Baum, Associate Professor. Home Economics Education, Vocational Education

Curtis H. Bradley, Professor, Organizational Training, Vocational-Industrial Education John A. Carpenter, Professor,

Educational Foundations. Educational Leadership Peter J. Cistone, Professor.

Educational Leadership Joseph B. Cook, Professor,

Community College Teaching Myrna P. Crabtree, Professor, Home

Economics Education, Vocational Education Miguel Escotet, Visiting Professor

(Courtesy), International Development Education/Educational Psychology

Charles Divita, Jr., Professor, Adult Education and Human Resource Development

Allen Fisher, Associate Professor. Educational Leadership

Paul D. Gallagher, Associate Professor, Educational Research, and Vice President, Business and Finance

Marisal Gavllan, Associate Professor, Educational Psychology/Bilingual Education

Lorraine R. Gay, Professor, Educational Research Barry Greenberg, Professor,

Educational Research, Community College Teaching James A. Hale, Professor, Educational

Leadership A. Dean Hauenstein. Professor.

Industrial Arts Education, Vocational Education Daniel A. Kennedy, Associate

Professor, Educational Psychology/School Counseling Philip J. Lazarus, Associate Professor,

Educational Psychology/School Psychology

Dominic A. Mohamed, Associate Professor, Vocational Administration and Supervision, Vocational Education

Sarah W. J. Pell, Associate Professor, Educational Leadership

Janice R. Sandiford, Associate Professor, Health Occupations Education, Computer Education. Vocational Education, and Assistant Dean

Donald C. Smith, Professor. Educational Psychology/School **Psychology**

Douglas H. Smith, Associate Professor, Adult Education and Human Resource Development

- G. Wesley Sowards, Distinguished Professor, Educational Leadership
- Robert F. Testa, Associate Professor, Educational Foundations, Music Education
- Jethro W. Toomer, Professor, Educational Psychology/Community Counseling
- Robert S. Winter, Associate Professor, International Development Education and Associate Dean
- Robert M. Wolff, Associate Professor, Parks and Recreation Management
- William F. Younkin, Instructor (Courtesy), Educational Research

The Division's general focus is on preparing a select group as teachers, educational planners and managers, psychological services personnel for professional positions in public and private schools, business and industry, colleges and universities, community service and governmental agencies, health and social service organizations. and a host of other non-school based entities which offer education and training programs and require skilled educational personnel. The Division offers undergraduate majors, graduate majors, certification, and certificate programs designed to prepare and enhance the skills of such personnel.

The Division offers undergraduate preparation leading to the degree of Bachelor of Science with specialized majors in the following areas:

Parks and Recreation Management Vocational Home Economics Education Vocational Industrial Education

with tracks in:
Business Teacher Education
Health Occupations Education
Industrial Arts Education
Organizational Training
Post-Secondary Technical
Education

Programs are designed for entry into the field of public education, or employment in business, industry, and other private or public agencies

Applicants for admission are required to have an associate degree or equivalent course work. For specific entrance requirements, consult the general admission statement for undergraduate students in this catalog. Because of the wide range of entry level competencies and career goals, each student in consultation with his or hor advisor is required to plan a program of study during the first semester of entryllend.

Parks and Recreation Management

Degree: Bachelor of Science

The Parks and Recreation undergraduate curriculum effers professional preparation programs designed to prepare students for employment in a variety of work settings which have as their goals and objectives employment in a leisure service delivery system. The program is criented towards supervisory and management employment opportunities.

A student may elect to gain competencies in Park Management, Recreation Management, or Parks and Recreation Management.

Lower Division Preparation

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program: (60 semester hours)
Required Core Courses: (39)

HFT 3403	Management Accounting	g
	for the Hospitality	
	Industry	3
LEI 3524	Personnel Management	
	in Parks and	
	Recreation	3
LEI 3542	Principles et Parks and	
	Recreation	
	Management	3
LEI 3630	Care and Maintenance	
	of Grounds	3
LEI 4590	Seminar in Parks and	
	Recreation	3
LEI 4940	Internship I	9
LEI 4941	Internship II	12
MAN 3025	Organization and	
	Management	3
Dealer Manage	Emphala: /14\	

Parks Management Emphasis: (14) ARC 4354 Construction and Design of Natural Recreation Areas

DOT 2000

LEI 3437

BQ 1 3823	Herticulture
LEI 3624	Turf Grass
	Management
PCB 3043	Fundamentals of
	Ecology
PCB 3043L	Fundamentals of
	Ecology Laboratory

Advised Electives 7 Behavioral Science (3) Communication Skills (4)

Recreation Management Emphasis:

Program Development	ın
Parks and Recreation	
Management	3

3

3

3

2

LEI 4700	Programming for Spec	ial
	Populations	3
POS 3153	Urban Politics	3
Advised Electives		12
	Behavioral Science	(6)
	Communication Skills	(6)

Parks and Recreation Management Emphasis

Students selecting this emphasis would take required core courses and any combination from the above concentrations.

Vocational Home Economics Education

Degree: Bachelor of Science

Lower Division Preparation

The student is required for certification to have 39 semester hours in the areas listed below under Technical Preparation. These may be earned in courses in both the lower and upper divisions. It is recemmended that students take at least one basic course in each of the subject areas (Technical Preparation), if these are available at the lower division level.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program: (60 semester hours)

semester hours)			
Professional	Education: (41)		
EDP 3004	Introduction to		
	Educational Psychology	3	
EDF 3521	Education in History		
LD: 00L1	or		
EDF 3542	Philosophy of Education	3	
EDF 3723	Schooling in America	3	
		J	
EDG 3321	General Teaching	_	
	Laboratery I	3	
EDG 3321L	Laboratory	2	
EDG 3322	General Teaching		
	Laboratory II	3	
EME 3402	Computers for Teachers	3	
RED 4325	Special Teaching Lab		
	Reading	3	
HEE 3302	Home Economics		
	Educational Planning	3	
HEE 4104	Instruction in Vecational		
	Home Economics	3	
HEE 4944	Special Teaching		
	Laboratory Heme		
	Economics Education	3	
HEE 4941	Student Teaching Home		

Technical Preparation. Total of semester hours needed from lower and uppor divisions. 39
Housing and Home Furnishings 6
Management and Family Economics 6

Economics Education

Family and Child Development ¹	9
Food and Nutrition ¹	9
Textiles and Clothing ¹	9
¹ Technical preparation courses are	
offered in the Colleges of Education,	
and Sciences, Engineering and Appli	ed
Sciences, Health, and the School of	
Hospitality Management.	

Vocational Industrial Education

Degree: Bachelor of Science

The Vocational Industrial Education program consists of a number of specialized tracks, including:

Business Teacher Education Health Occupations Education Industrial Arts Education Organizational Training Post-Secondary Technical Education Vocational Industrial Education

Please refer to the specific track for program requirements.

Lower Division Preparation

Evidence of appropriate occupational expenence must be presented prior to being admitted to the Vocational Industrial Education Bachelor of Science degree program.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program: (60 semester

m i rogiami. (oo semes	
Educational Psychology	3
Education in History	
or	
Philosophy of Education	1 3
	3
	3
	•
	2
	~
	_
	3
	s 3
	_
	3
onal Education	3
Instructional Materials i	n
Vocational Industrial	
Education	3
Course Planning in	
Vocational Education	3
	Education: (56-62) Introduction to Educational Psychology Education in History or Philosophy of Education Schooling in America General Teaching Laboratory I: Basic Teaching Skills General Teaching Laboratory I: Laboratory General Teaching Laboratory Felations Skills Computers for Teachers Special Teaching Laboratory: Reading Foundations of Vocational Education Instructional Materials i Vocational Industrial Education Course Planning in

EVT 3367	Testing and Measurements in Vocational Education Subjects	3
EVT 3815C	Vocational Education Laboratory Managemer and Safety	nt 3
EVT 4949	Supervised Occupation	-
EVT 4990	Credit by Examination	3-9
EVT 5369	Educational Media	3
EVT 4940	Special Teaching Laboratory: Vocational Industrial Education	3
EVT 4941	Student Teaching Vocational Industrial	·
	Education	9
Advised Elec		6
SYP 4421	Man, Society, and	

An appropriate course taken in consultation with the program advisor 3 Electives: Enough electives should be taken to equal a minimum of 60 semester hours.

Technology

Industrial Sociology

Industrial Psychology

Business Teacher Education Track

Lower Division Preparation

SYO 4360

INP 3001

Required Technical Preparation: Business machines, advanced courses in typewriting, word processing, shorthand, and office practice or secretarial procedures. Students should complete as much of the following as possible at the community college or its equivalent course work from another four-year college or university with the remainder to be taken at the University: Six semester hours in accounting, six semester hours in economics, two semester hours in business English, and two semester hours of business law.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program (65-74 semester hours)

Professional Education (47-56)

EDP 3004	Introduction to	
	Educational Psychology	3
EDF 3521	Education in History	3
	or	
EDF 3542	Philosophy of Education	
EDF 3723	Schooling in America	3

		Laboratory I. Dasic	
		Teaching Skills	3
EDG 33	321L	General Teaching	
		Laboratory I:	
		Laboratory	2
EDG 33	322	General Teaching	
		Laboratory II: Human	
		Relations Skills	3
EME 34	402	Computers for Teachers	3
RED 43	325	Special Teaching	
		Laboratory: Reading	3
EVT 30	65	Foundations of	
		Vocational Education	3
EVT 49	49	Supervised Occupational	1
			-9
BTE 30	68	Principles of Business	
		Education	3
BTE 44	10	Special Teaching Lab:	
		Business Education	
		Non-Skills	3
BTE 44	101	Special Teaching Lab:	
		Business Education	
		Skills	3
BTE 49	944	Special Teaching Lab:	
		Business Education	
		Practicum	3
BTE 49	45	Student Teaching in	
		Business Education	9
		•	

General Teaching Laboratory I: Basic

EDG 3321

Businesa Administration:(12) Recommended Courses

MAN 3025	Organization and	
	Management	3
MAN 3023	Marketing Management	3
Advised Elect	tives: Six semester hours	in
Business Adr	ninistration selected in	
consultation v	with program advisor	6

Electives: Electives are recommended either in the College of Education or the College of Business Administration, and in consultation with the program advisor.

[†]To be a certified vocational business teacher, one must have one year (or its equivalent) of office work experience. Supporting letters from former employers are required. EVT 4949 may be taken to meet the work experience requirement.

Health Occupations Education Track

Lower Division Preparation

Required Technical Preparation: Occupational preparation in the student's intended area of teaching such as nursing, dental, medical technology, respiratory therapy, radiology technology, and other allied health related occupations requiring training beyond the secondary school and licensure in the occupational area when applicable.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements

including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program:

(62-71 semester hours)

(101 110019
Professional EDP 3004	Education (32-41) Introduction to
	Educational
	Psychology 3
EDF 3521	Education in History 3
	or
EDF 3542	Philosophy of Education
EDF 3723	Schooling in America 3
EDG 3321	General Teaching Lab I:
	Basic Teaching Skills 3
EDG 3321L	General Teaching
	Laboratory I: Laboratory 2
EDG 3322	General Teaching
2200022	Laboratory II Human
	Relations Skills 3
EME 3402	Computers for Teachers 3
RED 4325	Special Teaching
1120 4020	Laboratory: Reading 3
EVT 3065	Foundations of Vocational
L V 1 0000	Education 3
	or
EVT 5078	Technical Education in
241 3070	American Society
EVT 3165C	Course Planning in
LV1 31030	Vocational Education 3
EVT 3367	Tests and Measurements
L V 1 3307	in Vocational
	Education 3
EVT 4949	
C+1 4343	Supervised Occupational Experience 3-9
	Experience 3-9

1For the student who lacks acceptable occupational experience in the area to be taught. Not to be counted in the upper division 60 hours minimum required for graduation.

Specialization A	Ares Rea	ulremente	/18\
Specialization /	area neg	uirements	(10)

EVT 4310	Planning and Operating	•
	HOE Programs	3
EVT 4311C	Special Teaching	
	Laboratory	3
EVT 4312	Instructional Strategies	
	and Evaluation in HOE	
	Programs	3
EVT 4941	Student Teaching in	
	Health Occupations	
	Education Programs	9
	uld be taken to equal a	
minimum of 6	2 semester hours	

Industrial Arts Education Track

Lower Division Preparation

Required Technical Preparation With reference to the technical preparation outlined below, the student is encouraged to take basic courses in each area in the lower division. College algebra and physics are required prequisites.

To qualify for admission to the

program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program: (65 semester hours)

Professional Education: (35)

Professional	Education: (35)	
EDP 3004	Introduction to Educational Psychology	•
EDF 3521	Education in History	3
EDF 3542	Philosophy of Education	3
EDF 3723	Schooling in America	3
EDG 3321	General Teaching	
	Laboratory I: Basic	
	Teaching Skills	3
EDG 3321L	General Teaching	
	Laboratory I:	
	Laboratory	2
EDG 3322	General Teaching	
	Laboratory II: Human	
	Relations Skills	3
RED 4325	Special Teaching	
51/T 01050	Laboratory: Reading	3
EVT 3165C	Course Planning in	
F14 4000	Vocational Education	3
EIA 4360	Instruction in	_
EIA 4044	Industrial Arts	3
EIA 4941	Student Teaching:	
	Industrial Arts	_
	Education	9

Advised Electives: The candidate will be encouraged to select professional electives on the basis of individual needs and career goals for a total of 35 semester hours of professional education

Technical Preparation: (30)

Required: A minimum of 30 semester hours are required, with a minimum of six semester hours in each of the following four areas:

Construction Technology¹

BCN 3210 BCN 3240L	Construction Materials Construction Methods	3
BCN 4254C	and Equipment Building Construction	3
	Drawing	3

Manufacturing Technology¹

Manufactorni	d technology.	
EIN 3390	Manufacturing	
	Processes	3
ETI 4421C	Materials Processing	3
EGN 1120	Engineering Drawing	3
	or	
ARC 3127	Graphic	
	Communications	3
ETM 4823C	Materials of Industry	3
EIN 4326	Industrial Research and	
	Development	3

Power and Transportation

Technology

reconnology		
ETM 4407L	Mechanical Power	
	Systems I	3
ETE 4562	Electrical/Electronics	
	Systems	3
ETE 3030	Survey of Electronics	3
ETM 4408	Mechanical Power	
	Systems II	3

Graphic Communications

recnnology ²	
Advised Electives	6-9
Enough electives should be taken to	
equal a minimum of 60 semester hou	rs.

¹Course substitutions may be made in consultation with program advisor. ²Consult program advisor

Organizational Training Track

The Organizational Training track prepares individuals to become professional trainers and instructors in non-public school settings. The track includes coursework appropriate to organizational training and has two options: (1) a 24 semester hour professional certificate program and (2) a baccalaureate degree, both options require an internship experience in an industrial, business, public, or private organization setting. Admission to the track is open to experienced workers in industry, business, public or private organizations or agencies who hold an Associate of Arts degree or its equivalent.

This track does not lead to State of Florida Teacher Certification.

Lower Division Preparation

Required Technical Preparation: Technical preparation in the student's intended area of teaching.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty somestor hours, and must be otherwise acceptable into the program.

Upper Division Preparation: (60 semester hours)

Professional Education: /1

Professional	Education: (18)		
EDF 3542	Philosophy of Education	3	
ENC 3210	Technical Writing	3	
EME 4103	Production and Use of		
	AV/Media	3	
EME 3402	Computers for Teachers	3	
EDP 3004	Educational Psychology	3	
RED 4325	Special Teaching		
	Laboratory, Reading	3	

Professional Emphasis: (39)

ADE 4384	The Adult Learner	3
ADE 4284	Organizational Training	
	and Dovelopment	3

EVT 3165	Course Planning 3
EVT 3367	Testing and Measurement
L + 1 0007	in Vocational Educational
	Subjects 3
EVT 4365	Instructional Strategies
	and Evaluation in
	Vocational and Technical
	Education 3
EVT 4365L	Instructional Laboratory 3
EVT 4920	Group Training and
	Development 3
EVT 4931	Special Topics 3
EVT 4942	Internship: Training and
	Development 6
EVT 4949	Supervised Occupational
	Experience 9
	or
ELIT 1000	
EVT 4990	Credit by Examination

An appropriate course taken in consultation with the program advisor

Post-Secondary Technical **Education Track**

Advised Electives

Lower Division Preparation

Required Technical Preparation: Technical preparation in the student's intended area of teaching such as electronics technology, architectural technology, commercial art, electronic data processing, electro-mechanical technology, and other occupations requiring training beyond the twelfth grade or demonstration of competency via EVT 4990 listed below.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program: (60 semester

hours)		
Professional	Education: (50-56)	
EDP 3004	Introduction to	
	Educational Psychology	3
EDF 3521	Education in History	
	or	
EDF 3542	Philosophy of Education	3
EDF 3723	Schooling in America	3
EVT 5078	Technical Education in	
	American Society	3
EDG 3321	General Teaching	
	Laboratory 1: Basic	
	Teaching Skills	3
EDG 3321L	General Teaching	
	Laboratory I: Laboratory	2
ADE 5385	Adult Teaching and	
	Learning	3
EDG 3322	General Teaching	
	Laboratory II Human	
	Relations Skills	3
EME 3402	Computers for Teachers	3
RED 4325	Special Teaching	
	Laboratory: Reading	3
EVT 3165C	Course Planning in	

EVT 4949	Vocational Education Supervised Occupation	3 nal
	Experience ¹	3-9
	or	
EVT 4990	Credit by Examination	3-9
EVT 5369	Educational Media	3
EVT 4940	Special Teaching	
	Laboratory Technical	
	Education	3
EVT 4941	Student Teaching:	
	Technical Education	9
¹ For the stude	ent who lacks acceptable	е
	experience in the area to	
be taught.		-
be laught.		
Advised Electi	ives	6
Free electives	: Enough upper division	1

Graduate Programs

3

The Division of Educational Policy and Human Resource Development offers graduate programs leading toward the Master of Science and the Doctor of Education degrees. Graduate Programs are available in the following fields of study:

electives should be taken to equal a

minimum of 60 semester hours.

Master's Programs

•
Adult Education
Public School Adult Administration
Human Resource Development
(HRD)
Educational Leadership
Educational Psychology
Community Counseling
School Counseling
School Psychology
International Development Education
Parks and Recreation Management
Vocational Home Economics Education
Home-Economics Education Track
(non-school based)
Vocational Industrial Education
Administration and Supervision
Business Education Track
Health Occupations Education
Track
Industrial Arts Education Track
Technical Education Track

Doctoral Programs

Adult Education and Human Resource Development Community College Teaching Educational Leadership

Adult Education

The Graduate Program in Adult Education and Human Resource Development is designed for the individual who chooses to serve as learning facilitator, training director, counselor, administrator, curriculum developer and/or researcher in adult education and human resource development programs in business and industry, public schools, hospitals,

governmental agencies, community colleges, universities, civic organizations, military service, or other agencies. Graduate programs of study are designed in relation to an individual's specific interests, needs, and career goals.

The Division offers two master's degree programs in Adult Education: Administration and Supervision, and Adult Education: Human Resource Development. Two options are possible in the Administration and Supervision program: (1) Public School Administration, or (2) General Adult Education Administration/Non-Public School Administration (not a certification program).

Adult Education: Human Resource Development is designed for persons interested in the design, implementation, evaluation, and management of human resource development programs. One half (15 hours) of the program is required, and the other half consists of elective courses selected by the advisor in relation to the student's career goals.

Adult Education: Administration and Supervision

(Only for public school adult educators) Degree: Master of Science

Required Program: (30 semester hours)

Required Col	re: (18):	
ADĖ 5081	Introduction to Adult	
	Education and Human	
	Resource Development	
ADE 5180	Organizational/Communi	ty
	Process in AE/HRD	3
ADE 5260	Organization and	
	Administration of Adult	
	Education and HRD	
	Programs	3
ADE 5385	Adult Teaching and	
	Learning	3
EDF 5481	Analysis and Application	
	of Education Research	3
RED 6336	Teaching Reading in the	
	Content Area	3
Area of Profe	essional Emphasia: (12)	

Adult Education: Human Resource Development (HRD)

Introduction to

and Improvement

Supervision and Staff Development

Educational Leadership 3

Curriculum Development

3

3

Degree: Master of Science

EDA 6061

EDG 6250

EDS 6050

Elective

Required Program: (30 semester hours)

Required Core: (15) ADE 5081 Introduction to Adult

	Resource Development 3
ADE 5180	Organizational
	Community Processes in
	AE/HRD 3
ADE 5383	Instructional Processes i
	n AE/HRD 3
ADE 5385	Adult Teaching and
	Learning 3
EDF 5481	Analysis and Application
	of Education Research 3

Education and Human

The candidate, with the approval of the advisor, will select courses that will increase competence in a specialty or a supportive social/behavioral science.

Educational Leadership

Degree: Master of Science

The Master of Science degree in Educational Leadership is awarded upon successful completion of all program requirements. The program consists of courses and experiences designed to develop entry level competencies for persons who are seeking. Florida certification in Educational Leadership. The curriculum consists of the Florida Educational Leadership Core which contains competencies identified in the eight domains of effective school leadership. Also included are competencies for high-performing principals identified by the Florida Council on Educational Management. Specialized experiences in selected areas of school leadership corresponding to career aspirations of the candidate are reviewed. Topics specific to non-public school administration may also be elected.

Admission to the program requires that the candidate meet criteria established by the Board of Regents for graduate study and other criteria established by the program faculty

To become certified in Educational Leadership, formerly Administration and Supervision, all candidates must successfully complete the Florida Educational Leadership Core and pass the Florida Educational Leadership Certification Examination

Required Program: (36 semester hours)

hours)		
EDA 6061	Introduction to	
	Educational Leadership	3
EDS 6115	School Personnel	
	Management	3
EDG 6250	Curriculum	
	Development	3
EDA 6232	School Law	3
EDA 6242	School Finance	3
EDA 6503	Principalship	3
EDA 6271	Microcomputer	
	Applications for	
	Administrators	3

EDA 6930	Seminar in Educational	
	Leadership	3
EDF 5481	Analysis and Application	1
	of Educational	
	Research	3

Guided Electives

Elective courses must include approved work in administrative applications of computers and in communications in education. Six semester hours must be earned in one of the following areas: Early Childhood, Middle School, Secondary School, Exceptional Student, Vocational Education and/or Adult Education for state certification.

Educational Psychology

Programs within the lield of Educational Psychology are designed to train professionals to meet the unique needs of individuals who experience cognitive, academic, and/or social-emotional difficulties that interfere with the individual's progress in school and in the community. Specific competencies are delineated for professionals in the field of school counseling, community counseling, and school psychology.

These programs emphasize the blending of research and theory with practical applied experience. They consider the urban, multi-cultural nature of the community, as well as more general trends within specific fields. All programs involve extensive field work with accompanying seminars. Independent study courses are available to allow students to pursue specialized interests and needs.

Applicants are required to submit an application to the Office of Admissions. All applicants must present GRE scores for the Verbal and Quantitative sections, three letters of recommendation (at least one from academic sources and one from work or volunteer experience), and an autobiographical statement. Candidates are admitted by action of the Program's Graduate Admissions Committee Criteria lor program acceptance include GRE scores, undergraduate grade point avorage during junior and senior years. work and volunteer experience, quality and source of letters of recommendation, and the candidate's career aspirations and goals. A combined Verbal-Quantitative GRE score of 1000 or GPA of 'B' or higher during the undergraduate junior and senior years, or both, are required for a candidate to be admitted via regular

All programs preparing school personnel are approved by the State of Florida and allow students completing the pregram to be eligible for certification by the State

procedures.

Counselor Education Tracks

The counselor education tracks require 60 semester hours, or the equivalent of four academic semesters, and lead to the Master of Science degree. The tracks follow a competency based model, the early part of which is largely generic in nature and is concerned with the development of knowledge and skills in the areas of individual and group counseling, consultation, preventive mental health, educational-vocational development, client appraisal, systems intervention, and model program organization and evaluation. The latter part of the program is more differentiated. and enables a specialization in either community or school counseling. Both areas of specialization meet the standards recommended by the American Association for Counseling and Development and specialization in school counseling qualifies the graduate for the Florida School Guidance Certificate The Community Counselor curriculum meets the master's degree requirement for eligibility towards licensure as a mental health counselor by the State of Florida.

The prospective student should be advised that a substantial amount of time is spent in field work to meet practicum and internship requirements. The practicum requirement is the equivalent of one work day per week spent in a field placement during one academic semester followed by an internship consisting of a forty hour work week in a field placement for the duration of one academic semester. The student should plan for this field work to be during the day, rather than during evening hours.

All students entering the Schoel Counseling track with an undergraduate degree in an area other than education must enroll for courses in general professional education as well as a course in reading as required by the Florida State Department of Education in order to meet state certification requirements in Florida.

The student should consult his or her advisor with reference to these course selections

Community Counseling

Dugree Master of Science

Required Program: (60 semester hours)

First Year: (2	7)	
EGC 6605	Professional Problems	
	in Counseling	3
EGC 5405	Introduction to	
	Counseling	3
EGC 6725	Human Interaction I	
	Group Process and	

Social Behavior

3

EGC 6707	Applied Behavioral Analysis in Counseling	
	and Education	3
EGC 6726	Human Interaction II	3
EDF 5481		-
EDF 5481	Analysis and Application of Educational	1
	Research ¹	3
EGC 6708		3
EGC 6708	Advanced Counseling	
	and Consultation: Theor	
E00.000	and Practice	3
EGC 6203	Appraisal and	
	Measurement in	_
	Counseling	3
EGC 5305	Educational-Vocational	_
	Counseling	3
O 4 W	(00)	
Second Year		
EGC 6616	Program Evaluation in	
	Counseling and	_
	Education	3
EGC 6822	Advanced Practicum in	
	Counseling and	_
	Consultation	3
EGC 6676	Supervised Field	
	Experience	
		10
EGC 6709	Organizational	
	Consultation: Human	
	Interaction III	3
EGC 6936	Seminar in Counseling	

School Counseling

EGC 6469

Degree: Master of Science

Required Program: (60 semester hourel

Electives and Independent Study

and Education

Counseling the

Culturally Different

3

3

nours)			
First Year: (2	7)		
EGC 6605	Professional Problems		
	in Counseling	3	
EGC 5405	Introduction to		
	Counseling	3	
EGC 6725	Human Interaction I:		
	Group Process and		
	Social Behavior	3	
EGC 6707	Applied Behavioral		
	Analysis in Counseling		
	and Education	3	
EGC 6726	Human Interaction II	3	
EDF 5481	Analysis and Application	1	
	of Educational		
	Research1	3	
EEX 6051	Exceptional Children		
	and Youth	3	
EGC 6203	Appraisal and		
	Measurement in		
	Counseling	3	
EGC 5305	Educational-Vocational		
	Counseling	3	
Second Year: (33)			
EGC 6616	Program Evaluation in		

Counseling and

Advanced Counseling

Education

EGC 6708

	and Consultation: Theory and Practice	3
EGC 6822	Advanced Practicum	in
	Counseling and	
	Education	3
EGC 6676	Supervised Field	
	Experience in	
	Counseling	10
EGC 6469	Counseling the	
	Culturally Different	3
EGC 6936	Seminar in Counselin	a
	and Education	ຶ 3
Advised Elec		8

1Students should consult with program advisor regarding courses required by the Department of Professional Regulation for certification eligibility as a Mental Health Counselor.

School Psychology

Degree: Master of Science

The program in School Psychology requires 60 semester hours. In general, the competencies to be demonstrated by the student completing this program are derived from the following: behavioral/ educational assessment and planning: counseling and child-centered consultation with teachers, parents, and agency representatives; staffing, liaison, referral, and case management; program development and evaluation; in-service education; administrative consultation; and community development.

Regulred Program: (60 semester

	grain: (ou semester	
hours)		
EDF 5481	Analysis and Application	1
	of Educational	
	Research	3
EGC 5405	Introduction to	
	Counseling	3
EGC 6725	Human Interaction 1:	
	Group Process and	
	Social Behavior	3
EGC 6726	Human Interaction II	3
EGC 6707	Applied Behavioral	
	Analysis in Counseling	
	and Education	3
EGC 6708	Advanced Counseling	
	and Consultation: Theor	
	and Practice	3
EEX 6227	Diagnostic Teaching:	
	Educational	
	Assessment	3
SPS 6805	Professional Problems	
	and Issues in School	
	Psychology	3
SPS 6191	Psycho-Educational	
	Assessment I: I	
	ntellectual	3
SPS 6191L	Psycho-Educational	_
000 0100	Assessment I: Lab	3
SPS 6192	Psycho-Educational	_
000 04001	Assessment II: Process	3
SPS 6192L	Psycho-Educational	
	Assessment II: Lab	3

SPS 6193	Psycho-Educational Assessment III:	
	Behavior	3
SPS 6193L	Psycho-Educational	
	Assessment III: Lab	3
EGC 6616	Program Evaluation in	
	Counseling and	
	Education	3
EGC 6678	Supervised Field	-
	Experience School	
	Psychology	10
EGC 6936	Seminar in Counseling	

A student with an undergraduate major in education is encouraged to select electives in the social and behavioral sciences. Other students must meet requirements in general professional education.

and Education

3-6

International Development Education

Degree: Master of Science

Electives

The Master of Science degree in International Development Education (IDE) is designed to provide graduate training to students interested in acquiring skills as specialists in educational development within the context of a changing society. The program places special emphasis on planning, management, research, and evaluation skills. Such skills are developed in relation to a specific area of educational specialization and with a special emphasis on understanding the influence of the social context of education on educational development and change.

Admission Requirements: To be admitted into the Master's degree program in International Development Education (IDE), a student must: (a) hold a Bachelor's degree from an accredited institution or its equivalent for international students; (b) have a 3.0 GPA or higher during the last 60 semester hours of undergraduate study (or its equivalent for foreign students); and/or (c) have a combined score (verbal and quantitative) of 1000 or higher on the GRE (students must submit the GRE scores regardless of their GPA or degree); and/or (d) have a graduate degree from an accredited institution of higher learning; (e) in the case of foreign students whose first language is other than English, a minimum score of 500 on the TOEFL examination is also required; (f) submit two letters of recommendation, preferably from persons in the academic community who are familiar with the applicant's record and who are able to evaluate the applicants background,

professional interest, and career goals.

Degree Regulrements: The Master's program requires the completion of a minimum of 36 semester hours of coursework (including thesis work) at the graduate level completed with a 3.0 GPA. A maximum of six semester hours of graduate work may be transferred to the program from other universities. The 36 semester hours are to be completed in accordance with the program curriculum.

Language Regulrement: The student must demonstrate competency in the use of a modern language, other than English, prior to graduation. International students may demonstrate competency in their native language. Language courses will not count for credit toward program completion.

Required Program: (36 semester hours)

Social Conte	xt of Education and
Developmen	t (6
EDF 5850	International Developmen
	Education: Historical and
	Contemporary Reality 3
EDF 5852	Educational Development
	Issues in Context: A Multi
	disciplinary Perspective 3

Educational Research and Evaluation

Methods	(9))
EDF 5481	Analysis and Application	
	of Educational	
	Research 3	J
EDF 6486	Research Methods in	
	Education: Experimental	
	Design and Analysis 3	ł
EDF 6475	Qualitative Foundations	
	of Educational	
	Research 3	B

Educational .	Policy, Planning,
Implementati	on/Management and
Evaluation S	kills (12)
EDF 6654	Macro- and Micro-
	Planning in Education 3
EDF 6651	International
	Development Education.
	Educational Technology,
	Planning and
	Assessment 3
EDF 6656	International
	Development Education
	Innovative Approaches in
	Educational Planning 3

Electives (6)

EDF 6658

The student will select, with advisor's permission, a minimum of six semester hours from courses available in one of the following areas:

Selected Topics

International Development

Education, Current Pelicy

Issues and Problems

- A content area of educational. specialization:
- 2. Comparative/Intercultural Education:
 - 3. System's consultation:
- 4. Socioeconomic and political context of development:
- 5. Courses in any other area of special interest to the student.

Thesis (3-9) EDF 6972

Thesis in International Development Education

Parks and Recreation Management

Degree: Master of Science

The graduate program in Parks and Recreation Management is planned to provide advanced preparation for administrative and supervisory level positions within a leisure services delivery system. The program includes electives which give flexibility regarding an individual's specific career goals as a future practitioner in Parks and Recreation Management To enter the program in Parks and Recreation Administration, a student must have a 3.0 GPA in upper division werk or score 1000 or higher on the Graduate Record Examination, possess a bacheler's degree, and have appropriate undergraduate preparation in recreation.

Required Program: (30-31 semester hours)

Required Co.	re: (21)
EDF 5481	Educational Research 3
LEI 5440	Program Development in
	Parks and Recreation 3
LEI 5510	Program Administration in
	Parks and Recreation 3
LEI 5595	Seminar in Parks,
	Recreation, and Athletic
	Management 3
LEI 5605	Physical and Social
	Bases of Parks and
	Recreation Planning 3
PAD 6106	Organization Theory and
	Administrative Behavior 3
PAD 6417	Public Persennel
	Administration 3

Area of Professional Emphasis: (3-12) LEI 5907 Individual Study LEI 6922 Supervised Field Experiences in Parks and Recreation¹ 3-9

Advised Electives

A student who did not complete an Internship/Field Experience during his or her undergraduate degree curriculum will be required to take LEI 6922

Students with field experience may select advised electives (6 semester hours).

Vocational Education

The Division offers graduate course work leading to the degree of Master of Science in Business Education, Health Occupations Education, Home Economics Education, Industrial Arts Education, Technical Education, Vocational Home Economics Education, Vocational Industrial Education, and Administration and Supervision in Vocational Education.

To be admitted to these programs applicants must hold or be eligible for the appropriate certificate or equivalent and must have an upper division undergraduate GPA of 3.0 or have a combined score of 1000 on the GRE (verbal and quantitative aptitude sections), or for vocational-industrial and technical education programs only, have a combined score of 2250 on the general examination of the 'College Level Examination Program' (CLEP), with a minimum score of 400 on each section. All applicants must submit a GRE score, or where appropriate a CLEP score, even though the GPA may be 3.0 or higher.

Students are urged to contact the Admissions Office or the Division for further information.

Note: Students who have already met the reading requirement as an undergraduate or through in-service education may substitute an elective for RED 6336.

Administration and Supervision of Vocational Education

Degree. Master of Science

Admission to the Administration and Supervision program requires adherence to the general standards as specified in the Admission Requirements for Graduate Students at the university In addition, an applicant must have completed at least one year of successful teaching experience as a teacher of vocational education subjects. To be certified in Administration and Supervision in Vocational Education in Florida, a person must have at least three years of successful teaching experience in one of the vocational education areas. While one year of successful teaching will meet the experience requirement for admission to the master's degree program initially, the three-year teaching experience requirement must have been completed either before or at the same

time as degree requirements are
completed. Each graduate student, in
consultation with the advisor, plans a
program of study to include a core of
professional competence, an area of
emphasis, and electives. The program re-
quires a minimum of 33 semester hours.

Required Program: (33-36 semester hours)

,		
Required Co	re: (27-30)	
EVT 5168	Curriculum Development	
	in Vocational Education 3	
EVT 5265	Supervision and	
	Coordination of Vocational	
	Education Programs 3	
EVT 5664	Community Relations and	
	Resources for Vocational	
	Education 3	
EVT 6264	Administration of Local	
	Vocational Education	
	Programs 3	
EVT 6930	Seminar in Vocational	
	Education 3	
EDA 6061	The Organization and	
	Operation of the Public	
	School System 3	
EDA 6530	The Administration of the	
	Secondary School 3	
EDS 6050	Supervision and Staff	
	Development 3	
EDG 6250	Curriculum	
	Development 3	
RED 6336	Reading in the	
	Content Area ¹ 3	

Area of Profe	essional Emphasis:	
EVT 6946	Supervised Field	
	Experience	3
Electives: The	candidate may select a	
course (or cou	urses) that will increase	

administrative and supervisory

competencies

1Students who have met the reading requirement as undergraduates or through approved in-service education may substitute an elective for this course.

Business Education

Degree: Master of Science

Required Program: (33 semester hours)

D ~			^	/ 4	2-15	١.
мe	auı	rea	COLE		12-15	

Required C	ore: (12-15)	
EVŤ 5168	Curriculum Developmen	nt
	in Vocational Education	
EVT 5769	Evaluation in Vocationa	
	and Technical Educatio	n3
EVT 6760	Research in Vocational	
	Education	3
EVT 6930	Seminar in Vocational	
	Education	3
RED 6336	Reading in the Content	
	Area ¹	3

Area of Pro	les sional	l Emphas	ls: (12-15)	ı
BTE 5671	Proble	ms, İssue	s and	

Trends in Business 3 Education

s
onal
3
iness
3

	or
BTE 6432	Teaching Word
	Processing
BTE 6905	Directed Independent
	Study

BTE 6940 Supervised Clinical Field Experience Electives: The candidate will be

encouraged to make selections on the basis of individual needs and career goals. 1Students who have met the reading

requirement as undergraduates or through approved in-service education may substitute an elective for this course

Health Occupations Education

Degree: Master of Science

Required Program: (30 semester hours)

Required Core: (12-15)

EVT 5168	Curriculum Developmen	
	in Vocational Education	3
EVT 5769	Evaluation in Vocational	
	Education	3
EVT 6760	Research in Vocational	
	Education	3
EVT 6930	Seminar in Vocational	
	Education	3
RED 6336	Reading in the Content	
	Area ¹	3

Area of Professional Emphasis: (9)

EVT 5315	Improvement of Teacl	hing
	Strategies in Health	
	Occupations and	
	Nursing Education	3
EVT 5317	Occupational Analysis	s in
	Health Occupations a	nd
	Nursing Education	3
EVT 6318	Issues in Health	
	Occupations and	
	Nursing Education	3

Technical Electives

6 The candidate will be encouraged to select courses that will increase subject area technical competence, career goals, and teaching certification requirements

1Students who have met the reading requirement as undergraduates or through approved in-service education may substitute an elective for this course

Home Economics Education¹

Degree: Master of Science

This track locuses on educational leadership of Home Economists presently employed in non-school educational environments and those preparing for such positions.

Required Program: (30 semester hours)

3

Required Cor	re: (18)	
HEE 5335	Trends in Vocational	
	Home Economics	
	Education	3
HEE 6156	Teaching Home	
	Economics in Diverse	
	Environments	3
ADE 5180	Organizational and	
	Community Processes	
	in AE/HRD	3
EDF 5481	Analysis and Application	
	of Educational Research	3
HEE 6915	Research in Home	
	Economics Education	3
HEE 6937	Seminar in Home	
	Economics Education	3

Area of Professional Emphasis: With program advisor's approval, students may select courses in Home Economics subject matter based on professional competencies needed. Electives: The candidate in consultation with the advisor will make selections on the basis of individual needs and career goals.

¹This program does not lead to State of Florida Teacher Certification, Admission to this track does not require teacher certification.

Industrial Arts Education

Degree: Master of Science

Required Program: (30 semester hours)

Regulred Core: (15-18) FVT 5650 Trends and Issues in

L V 1 3030	Helios allo issues III
	Vocational Education 3
EVT 5168	Curriculum Development
	in Vocational Education 3
EVT 5769	Evaluation in Vocational
	and Technical Education 3
EVT 6760	Research in Vocational
	Education 3
EVT 6930	Seminar in Vocational
	Education 3
RED 6336	Reading in the Content

3

Area1 Area of Professional Emphasis: (9-12) EIA 5811 Equipment and Facilities 3

Planning Instructional Projects EIA 6931 Development

The student, under the direction of the program advisor, may develop professional competencies in an area of emphasis through seminars, methods courses, workshops, or independent

1Students who have met the reading requirement as undergraduates or

through approved in-service education may substitute an elective for this course

Technical Electives: The student is encouraged to select courses that will increase subject area technical competence. 3.6

Technical Education

Degree: Master of Science

Required Program: (30 semester hours)

Required Core: (15-18) **EVŤ 5650** Trends and Issues in Vocational Education **EVT 5168** Curriculum Development in Vocational Education 3 **EVT 5769** Evaluation in Vocational and Technical Education 3 **EVT 6760** Research in Vocational Education **EVT 6930** Seminar in Vocational Education RED 6336 Reading in the

Area of Professional Emphasis: (6) Technical Education in **EVT 5078** American Society 3 ADE 5385 Adult Teaching and Learning

Content Area1

Technical Electives The candidate will be encouraged to select courses that will increase subject area technical competence.

Advised Electives for Non-education Graduates: (6)

EDF 5812	National Educational Systems: A Comparative Analysis 3
	or S
SYO 5255	Sociology of Education and
EXP 5406	Theories of Learning or
EDF 6215	Application of Learning Theory to Instruction 3

Students who have met the reading requirement as undergraduates or through approved in-service education may substitute an elective for this course

Vocational Home Economics Education

Degree: Master of Science

Required Program: (30 semester hours)

Required Core: (15-18)

HEE 6156

HEE 5335 Trends in Vocational Home Economics Education **EVT 5168** Curriculum Development in Vocational Education 3

Teaching Home

	Economics in Diverse Educational	
	Environments	3
HEE 6915	Research in Home	
	Economics Education	3
HEE 6937	Seminar in Home	
	Economics Education	3
RED 6336	Reading in the	
	Content Area1	3

Area of Professional Emphasis: With program advisor's approval, a student may select courses in subject matter of Home Economics chosen from offerings outside of the College of Education, based on professional competencies needed. 9

Electives:

3

3

3

The candidate will be encouraged to make selections on the basis of individual needs and career goals. 3-6

1Students who have met the reading requirement as undergraduates or through approved in-service education may substitute an elective for this course.

Vocational Industrial Education

Degree: Master of Science

Required Program: (30 semester hours)

Regulred Core: (18-21)

EVT 5650	Trends and Issues in
	Vocational Education 3
EVT 5168	Curriculum Development
	in Vocational Education 3
EVT 5695	International Comparative
	Vocational Education 3
EVT 5769	Evaluation in Vocational
	and Technical Education 3
EVT 6760	Research in Vocational
	Education 3
EVT 6930	Seminar in Vocational
	Education 3
RED 6336	Reading in the
	Content Area ¹ 3

Area of Professional Emphasis: A student under the direction of an advisor, may develop professional competencies in an area of emphasis through school-based field experiences. seminars, methods courses, workshops, or independent study 3.9

Technical Electives: The candidate will be encouraged to select courses that increase subject area technical 3.6 competence

Students who have met the reading requirement as undergraduates or through approved in-service education may substitute an elective for this course

Educational Specialist

The educational specialist program in Educational Leadership is designed to build upon the educator's master degree preparation and professional experience. The degree candidates may include coursework that prepares them for state certification in Educational Leadership. Program descriptions may be obtained from the program leader (305-554-3221).

Admission Requirements

Applicants must hold a current regular Florida teaching certificate or possess such prior to award of the degree. A 3.0 GPA in the last 60 semester hours of undergraduate study or a 3.5 GPA in the master's program from an accredited university and 1000 on the Graduate Record Examination (GRE), verbal and quantitative scores

Further, an interview with program and faculty recommendation are required.

Doctoral Programs

Adult Education and Human Resource Development (HRD)

The doctoral program in Adult Education and Human Resource Development (HRD) is designed to serve the advanced graduate study needs of a wide range of professionals in leadership positions who are concerned with the design, implementation, and evaluation of educational and training programs for adults. These professionals may be engaged in program development and evaluation, instruction and training, counseling and advisement, consultation, and marketing and recruitment activities designed to further the growth and development of adult learners or to improve organizational functioning through educationally related intervention strategies, or both. Accordingly, participants in the program come from such diverse backgrounds as business and industry, higher education, public and proprietary schools, health and social service agencies, law enforcement and corrections, the military, governmental agencies, religious organizations, libraries and museums, and civic and professional associations

Admission Requirements: Applicants to the program must submit the following records and documents

- 1 Official transcript from all higher education institutions attended
 - 2 Official copy of the GRE scores
- 3 Three letters of recommendation
 - 4. A current resume
- 5. A statement of personal interest in the program

6. A completed Application for Graduate Admission

The data from applicants is reviewed by an admissions committee. The criteria applied in reviewing the applicants files are noted below. Exceptions to one or more of the criteria may be granted provided the applicant has excelled in certain off-setting assessment areas.

1. 3.0 GPA in the last two years of

undergraduate work

2. 3.25 in all graduate work attempted

3. A master's degree from an accredited institution or equivalent preparation 4. A score of at least 1000 on the

general aptitude portion of the GRE 5. Evidence of commitment to a

career in the broad field of Adult Education and HRD 6. Successful professional

experience in the field of Adult Education and HRD

7. Potential for leadership or research in the field, or both.

Program of Study: Doctorate programs of study vary according to the individual needs of the participants and their current or anticipated professional goals. A typical program will require a minimum of 101 semester hours beyond the baccalaureate degree and will involve the categories of courses noted below. The list should be considered as a sample program rather than an absolute delineation of exact requirements. Actual programs are planned by the participants, their major professor and doctoral committee.

1. Adult Education and HRD includes such courses as comprehensive Adult Education and HRD planning, program development, instructional design, adult teaching and learning, Adult Education and HRD trends and issues, strategies, and research. 18-24

2. Elective Core varies according to the participants' background and professional goals

3. Research and Statistics

4. Prospectus and Dissertation 24

Community College Teaching

The doctoral program in Community College Teaching is designed to provide the opportunity for specially selected students to enhance instructional and research skills related to the continuing development and operation of the community college. The program is offered in a format to make it attractive and available to place bound professionals in Southeast Florida. The program is designed to stimulate research related to the community

college, particularly in the development of innovative instructional approaches.

Admission Requirements: The requirements for admission consist of a master's degree from an accredited university; combined quantitative and verbal scores of 1000 on the GRE; a score at the 50th percentile or higher on the appropriate subject test of the GRE; a 3.25 GPA on all post-baccalaureate work, a departmental interview, and acceptance by the department of the instructional field.

Program of Study: Post-baccalaureate coursework minimum requirements for the degree, while subject to individual variations, consist of the following:

Community College/Higher Education

3

Core: (20) EDH 7065 Higher Education: Philosophical and Historical Perspectives EDH 7204 **Higher Education:** Community College Higher Education: EDH 7307 Instructional Methods EDH 7225 Higher Education: Developmental Programs Additional courses in Education that will enhance the student's instructional

Instructional Field Specialty Area The instructional field consists of 30 graduate hours related to the subject which is or will be taught in the community/junior college.

Cognate Area

abilities and skills.

The cognate area may be taken in one or more subject areas and may include graduate or undergraduate (postbaccalaureate) courses. The design of the cognate should assist the student in developing into a well-rounded community college teacher, one who is able to adapt to changing conditions of instruction.

Research and Statistics

The research and statistics requirement is to assist the student in expanding the capacity to use research related to instruction.

Dissertation

The dissertation should be on a topic of importance to higher education and should reflect the student's professional interests and goals.

Previous graduate course work, including work completed as part of a master's degree program may be applied toward the doctoral program requirements.

Educational Leadership

The doctoral program in Educational Leadership is designed for students who wish to pursue leadership roles in educational institutions. Among those roles are principals, supervisors. directors, and superintendents of public and independent schools; state, federal, and international agency administrators and staff; and research and development personnel. The curriculum is designed to enable students to become familiar with and utilize effectively both theoretical and technical knowledge. The program of study is multidisciplinary and integrates broad intellectual perspectives into the study and practice of Educational Leadership.

Admission Requirements: The minimum admission requirements are as follows:

1. A master's degree from an accredited institution

2. A 3.0 GPA in the last 60 hours of undergraduate work.

3. A 3.25 GPA in prior graduate work

4. A score of 1000 on the GRE (verbal and quantitative)

5. Evidence of three years or more of successful and appropriate professional experience

6. Three letters of recommendation to support the application for admission

7. A statement that sets forth the applicant's career goals and relates those goals to the completion of the doctoral program

8. In the case of a loreign student, a TOEFL score of at least 600 and a score of at least 470 on the verbal portion of the GRE.

9. An interview with program faculty that utilizes targeted selection methods.

Recommendation by the program faculty.

Program of Study: The program requires the completion of a minimum of 99 se-mester hours of academic work beyond the baccalaureate degree. Program requirements include the following:

Required Core Courses 18 Guided Electives in Educational Administration 15 Minor/Cognate Area 15 Research and Statistics 12 Dissertation 24

Upon completion of the coursework, each student must pass a comprehensive examination and be advanced to candidacy.

The doctoral dissertation is the final component of the series of

academic experiences that culminate in the awarding of the Ed.D. degree. A successful dissertation is a demonstration of the candidate's ability to use the tools and methods of basic or applied research in the field, or both, to organize the findings, and to report them in a literate, logical, and lucid fashion.

More specific information concerning the doctoral program is available from faculty members in the program area.

Research and Statistics Component of Doctoral Programs

The research requirement is common to all College of Education doctoral programs. The courses listed below are incorporated in the Adult Education and Human Resource Development program, the Community College Teaching program, and the Educational Leadership program.

Required Program: (9)

nequired ri	Ogram. (3)	
EDF 5481	Analysis and Application	n
	of Educational	
	Research	3
EDF 6486	Research Methods in	
	Education: Experiment	al
	Design and Analysis	3
STA 5166	Statistical Methods in	
	Research I	3

Electives: (3) EDF 6403

Quantitative Feundations of Educational Research 3 or

EDG 6475

or Qualitative Foundations of Educational Research

3

Certificate and Add-on Certification Programs

Professional Certificate Program in Adult Learning Systems

The professional certificate in adult learning systems is a comprehensive and integrated university-based option to provide professionals with skills and training for adult education programmers. The non-degree certificate program may be pursued in conjunction with a bachelor's or master's degree; or beyond the bachelor's or master's degree; or independent of the pursuit of a degree. The latter option is for persons having special responsibilities and experiences in the field of Adult Education and Human Resource Devolopment.

Required Program: (20 semester hours)

Werkshep in Adult
Education and Human
Resource
Development 1-6
Adult Teaching and
Learning 3
Organizational and
Community Processes
in AE/HRĎ 3
Development of Adult
Education and HRD
Programs II 3
Special Topics in Adult
Education and Human
Resource Development 1
Seminar in Adult
Education and Human
Resource
Development 1-3
1

To be admitted to the program the student must:

 Hold or be seeking a bachelor's or master's degree from an accredited institution:

 Have submitted three letters of recommendation describing ability to engage in and profit from such a program of studies;

3. Submit a personal statement of interests and goals which relate to Adult Education and Human Resource Development.

Applicants will develop a project or problem-oriented learning contract during the initial workshop to be pursued throughout the program. Contracts will be refined as the student progresses through the first part of the program of studies. The culminating activity, the Seminar, ADE 6930, will require the student to complete, share, and evaluate the tasks and activities within the individual learning contract.

Professional Graduate Certificate Program In Business Education

The professional Graduate Certificate Program for Business Education requires a minimum of 18 semester hours of course work above the bachelor's degree. This program is designed for those who have already earned a bachelor's degree with a major in Business Education. Consequently, the studont will have already met the State Department of Education certificate requirements.

A candidate is urged to consult the Business Education advisor to plan a program of study prior to starting a program

Required Courses: (18 semester hours)
RED 6336 Reading in the Content Area¹

EVT 5168	Curriculum Development
	in Vocational Education 3
EVT 5769	Evaluation in Vocational-
	Technical Education 3
BTE 5671	Problems, Issues and
	Trends in Business
	Education 3
BTE 5455	Teaching in Business
	Education Occupational
	Programs 3
	or
BTE 5447	Teaching Basic Business
	and Consumer
	Education
Advised Elec	tives 3-6
¹ Students wh	no have met the reading

requirements as an undergraduate or through approved in-service education may substitute an elective for this course.

Professional Certificate In Educational Leadership

The objectives of the certificate are to meet the requirements of SBE 6A-4.082 (5) C which requires a "modified core Florida Educational Leadership program"; and to assist professional educators in meeting the State requirements for certification in Educational Leadership.

Required Courses: (24 semester credits)

Credits)		
EDA 6930	Educational Leadership	3
EDA 6195	Communications in	
	Education	3
EDA 6232	School Law	3
EDA 6242	School Finance	3
EDA 6271	Administration and	
	Application of	
	Computers	3
EDA 6503	School Principalship	3
EDA 6250	Development and	
	Improvement	3
EDS 6050	School Personnel	
	Management	3

Professional Certificate Programs in Health Occupations Education

The overall purpose of the professional certificate program in health occupations education is to enhance the dovolopment of basic teaching skills and/or instructional techniques of health occupations educators. The professional certificate program provides for the continuing oducation, upgrading or redirection needs of health occupations teachers through planned advisement and professional certificate recognition. The programs are for both undergraduate and graduate, degree or non-degree seeking students.

Undergraduate Professional Certificate - Health Occupations Education

The certificate program in Health Occupations Education is currently under revision. State Teacher Certification requirements have not been finalized at press time. Please consult with the program advisor for further information about this program.

Graduate Professional Certificate - Health Occupation Education

This 24 semester hour plan is designed to meet the needs of the individual who (1) is occupationally competent in a health field and currently teaching or desires to teach a health occupations subject, (2) holds a teaching certificate or equivalent or bachelor's degree or both including out of field and (3) does not wish to, or is unable to, meet the master's degree entrance requirements necessary to pursue the master's dearee.

Prescribed Courses: (24 semester

hours)		
EVT 5078	Technical Education in	
	American Society	3
	or	
EVT 5650	Trends and Issues in	
	Vocational Education	3
EVT 5168	Curriculum Development	
	in Vocational Education	3
EVT 5769	Evaluation in Vocational	
	and Technical	
	Education	3
EVT 5315	Improvement of Teaching)
	Strategies in Health	
	Occupations and	
	Nursing Education	3
EVT 5317	Occupational Analysis in	
	Health Occupations and	
		3
	and/or	
ADE 5385	Adult Teaching and	
		3

Advised Electives: A minimum of two courses selected from courses in General Professional and Adult Education, Vocational Education, Health Service Administration or Health Speciality

Professional Certificate in Organizational Training

This 24 semester hour professional certificate program is designed to prepare experienced workers to serve in a variety of education, training, and development settings in industry and business as well as public and private agencies and organizations. These settings include three types of training:

skills and technical, management, and motivational; and four specific training and development job roles: instructor, media producer, instructional designer, and organizational developer. An internship in training and development in a business, industrial, agency or organization setting is required.

Regulred Program: (24 semester

1100137		
ADE 4284	Organizational Training	
	and Development	3
EME 3402	Computers for Teachers	3
EME 4103	Production and Use of	
	A/V Media	3
EVT 3165	Course Construction	3
EVT 4365	Instructional Strategies	3
EVT 4365L	Instructional Laboratory	3
EVT 4942C	Internship: Training and	
,	Development	6

A minimum of two years occupational experience and an associate degree or its equivalent is required for admission. This program does not lead to State of Florida Teacher Certification, Admission to this program does not require teacher certification.

Program for Guidance Certification

To provide a means of obtaining the Florida Guidance Certificate (K-12) for those who already possess a Master's degree in Education and do not wish to pursue a second Master's degree.

Entrance Requirements:

- Master's degree in Education.
- 2. Current employment as a counselor or a minimum of three years teaching experience.
- 3. Status as a non-degree seeking graduate student.

Required Program: (27 semester

hours)	
EGC 5405	Introduction to
	Counseling 3
EGC 5305	Educational-Vocational
	Counseling 3
EGC 6708	Advanced Counseling
	and Consultation: Theory
	and Practice 3
EGC 6605	Professional Problems in
	Counseling 3
EGC 6203	Measurement and
	Appraisal in Counseling 3
EGC 6707	Applied Behavioral
	Analysis in Education 3
EDF 5432	Measurement and
	Evaluation in Education 3
EGC 6936	Seminar in Pupil
	Personnel Services 3
	or
EDF 6215	Application of Learning
	Theory of Instruction
EGC 6822	Advanced Practica in

Counseling and Consultation1

Note: At the discretion of the program coordinator, a minimum of six semester

satisfy these requirements. ¹This is the terminal course in the program. All other courses are required as prerequisites. Enrollment is by permission of instructor only.

hours of transfer credit may be used to

Program for Vocational-Technical Teacher Education Certification

The certificate program in Vocational-Technical Teacher Education is currently under revision. State Teacher Certification requirements have not been finalized at press time. Please consult with a program advisor for further information about this program.

Special programs of vocational teacher certification, designed in cooperation with local school districts. are offered on an annual basis. Please consult with a program advisor for further information.

Program for Advanced Vocational Teacher Certification

Certification rules have not been finalized at press time. It is anticipated that the Advanced designation will be available for the Professional Certificate-Vocational. Please consult an advisor for further information.

Course Descriptions

Definition of Prefixes

ADE - Adult Education: ARE - Art Education: BTE - Business Teacher Education: CGS - Computer Applications: CHD - Child Development: COA - Consumer Affairs; DAA - Dance Activities: DAE - Dance Education: EDA - Education: Educational Leadership: EDE - Education: Elementary; EDF -Education: Foundations; EDG -Education: General; EDH - Education -Higher; EDP - Education: Psychology; EDS - Education: Supervision; EEC -Education: Early Childhood; EED -Education: Emotional Disorders: EEX -Education: Exceptional Child, Core Competencies; EGC - Education: Guidance and Counseling; EGI -Education: Exceptional Child, Gifted; EIA - Education: Industrial Arts; ELD -Education: Specific Learning Disabilities; EME - Education: Technology and Media: EMR - Education: Mental Retardation: ESE - Education Secondary; ETE - Engineering Technology: Electrical; ETM -

Engineering Technology: Mechanical: EVT - Education: Vocational/Technical; FAD - Family Development: FLE -Foreign Language Education; HEE -Home Economics Education; HHD -Housing; HLP - Health, Leisure, and Physical Education; HME - Home Management Equipment; HOE - Home Economics; LAE - Language Arts and English Education; LEI - Leisure; MAE -Mathematics Education: MUE - Music Education; PEL - Physical Education; PEM - Physical Education Activities; PEO - Physical Education Activities: PEP - Physical Education Activities; PEQ - Physical Education Professional Water; PÉT - Physical Education Therapy; RED - Reading Education; SCE - Science Education: SPA - Speech Pathology and Audiology; SPS - School Psychology; SSE - Social Studies Education; TSL - TESOL.

ADE 4284 Organizational Training and Development (3). Describes role of employee training/development in a variety of organizations. History/current trends and issues/future directions noted. Training and development in specific organizations emphasized.

ADE 4384 The Adult Learner (3). Identifies the characteristics and evolving development of adults. Reviews the primary learning theories and analyzes those most applicable for adults as learners.

ADE 5081 Introduction to Adult Education and Human Resource Development (3). Developing rationale for and philosophy of human resource development/adult education: contrasting agencies, program, and curricula; analyzing factors affecting human resource development, differentiating adults and youths as learners; planning and appraising human resource development programs.

ADE 5180 Organizational and Community Processes in AE/HRD (3). Analyzing human resource and community development programs, the processes and implemental strategies, needs assessment objectives, curricula, recruitment, implementation, and evaluation

ADE 5195 Designing Education and HRD Programs for Disadvantaged Adults (3). Distinguishing various forms of disadvantage; analyzing forces which inhibit solution, criticizing responses to problems; developing programs, curricula materials, rucruitment strategies, and evaluation designs

ADE 5260 Organization and Administration of Adult Education and Human Resource Development Programs (3), Analyzing regulations affecting adult education/human resource development, selecting and training staff; selecting organizational patterns; executing managerial responsibilities; administering supportive services; relating training to organization development.

ADE 5383 Instructional Processes in AE/HRD (3). Analyzing models for instructional design; identifying and evaluating variables related to such models; developing designs unique for adult learners and organizational needs.

ADE 5385 Adult Teaching and Learning (3). Differentiating theories of learning in relation to teaching adults; contrasting characteristics of adults as opposed to youth; evaluating the implications of such distinctions in relation to learning situations appropriate for adults.

ADE 5906 Individual Study In Adult Education and Human Resource Development (1-3). Specialized intensive study in areas of interest to the student. Subject to approval of program adviser.

ADE 5925 Workshop In Adult Education and Human Resource Department (1-6). Intensive development of selected competencies related to instructional, curricular and/or administrative skills of special interest to students in adult education/human resource development.

ADE 5935 Special Topics in Adult Education and Human Resource Development (1). Mini-courses' which provide for an examination of special lacets of adult education and human resource development.

ADE 5945 Supervised Field Experience in Adult Education and Human Resource Development (1-6) Internship in various programs according to needs and interests Supervisory visits by advisor. Joint conferences and seminars involving the student, the program advisor, and an appropriato representative of the cooperating agency are conducted intermittently

HRD Trends and Issues (3). Presentation & analysis of state-of-art trends impacting development of human resources in specific organizations including educational agencies/business & industry/public sector and commerce Prerequisites: ADE 5081 or oquivalent.

ADE 6674 Organizational Training and

ADE 6772 Review of Research in Adult Education and Human Resource Development (3) A review and synthesis of research & development activities in Adult Education/HRD. Examination of resources/practices/designs & justifications. Assessment of the status of research in this field. Prerequisites: EDF 5481. ADE 5383. ADE 5180.

ADE 6920 Adult Education/HRD Colloquium (1-6). Lectures & discussions by distinguished educators/social scientists/ organizational executives/graduate faculty & students. Colloquia presents specific topics related to issues/trends/designs & applications.

ADE 6930 Seminar in Adult Education and Human Resource Development (1-3). Intensive study of instructional, curricular, and/ or administrative principles and practices for the solution of problems of special interest to students in adult education and human resource development.

ADE 7475 Comparative Systems, Strategles and Materials for Adult Education/HRD (3). A review and critique of the prevailing inventory of packaged systems on the market. Examination of assumptions and problems surrounding their actual usage in local and national organizations. Prerequisites: ADE 5180/ADE 5383.

ADE 7571 Consulting as an Adult Education/HRD Process (3). Examination of use of internal/external consultation in organizations. Strategies for making entry diagnoses interventions achieving internalization of processes outcomes. Prerequisites: ADE 5180, ADE 5383.

ADE 7964 Comprehensive Doctoral Examination, Adult Education/HRD (0). Comprehensive doctoral examination in the Adult Education/Human Resource Development. Prerequisite; Permission of Major Professor.

ADE 7980 Dissertation, Adult Education (3-20). Research for doctoral dissertation for those students approved for candidacy in the Adult Education/Human Resource Development Program. Proroquisite: Advancement to Candidacy in doctoral program.

ADE 7985 Dissertation Defense, Adult Education/HRD (0). Defense of Dissertation. Prorequisites: Permission of Major Professor and ADE 7980

ARE 3313 Experiencing Art in The Elementary School (3). Designed to provide the student with competencies

necessary for the development and implementation of art experiences in the elementary curriculum. Prerequisite: Art course.

ARE 4316 Special Teaching Laboratory: Art in Gradea K-6 (3). Development of instructional skills, techniques, and strategies for teaching art in the elementary school. Laboratory and field participation required. Prerequisites: EDF 3723, EDG 3321, EDG 3322. Minimum prerequisite or corequisite of 20 hours required in subject matter specialization.

ARE 4341 Special Teaching Laboratory: Art in Grades 7-12 (3). Development of instructional skills, techniques, and strategies for teaching art in the junior and senior high school. Laboratory and field participation required. Prerequisites: EDF 3723, EDG 3321, EDG 3322; ARE 4316. Minimum prerequisite or corequisite of 20 hours required in subject matter specialization.

ARE 4940 Student Teaching in Art (9). Supervised teaching in an elementary and secondary school. Prerequisites: EDF 3723, EDG 3321, EDG 3322; ARE 4316, 4341; RED 4325, and 18 semester hours of the course work required in art.

ARE 5251 Art for the Exceptional Child (3). Development of instructional art skills, techniques, and strategies as related to the exceptional child. Observation and field participation required.

ARE 5553 Introduction to Art Therapy (3). An overview of art therapy as a verbal and nonverbal means of communication with special emphasis on psychodynamic fundamentals inherent to the process for the purpose of diagnosis, treatment, and intervention for people with special needs.

ARE 5905 Directed Study in Art Education (1-3). Individual investigation and research in one or more areas of art education. Prerequisite: Consent of professor.

ARE 5945 Practicum: Art Education (6). Supervised teaching in a junior or senior high school. Prerequisites: Admission to the Alternate Track Program and completion of prerequisite coursework in education and subject matter area. Supervised teaching in an elementary or secondary school.

ARE 6140 Curriculum and Instruction in Art (3). Examination of theoretical bases of curriculum development in art education. Analysis of objectives, content, methods, and materials for art instruction in the elementary, junior, and senior high school.

ARE 6262 Organization and Coordination of School and Community Art (3). Procedures for the organization, coordination and evaluation of school, community, and inservice art programs, with particular attention to the urban multi-cultural setting.

ARE 6304 Instruction in Art (Early Childhood) (3). Relinement of skills related to program development, methods of teaching, selection of materials, and review of research, in preschool and early childhood education.

ARE 6315 Instruction in Art (Elementary) (3). Relinement of skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education.

ARE 6706 Seminar in Art Education: Contemporary Issues and Research (3). Examination of current issues and review of research in art education literature. Delineation and application of an individual research problem. Prerequisite: EDF 5481.

ARE 6925-29 Workshop In Art Education (3), Production and application of materials and techniques in art education, in a laboratory or field setting.

ARE 7938 Doctoral Seminar in Art Education (3). Advanced doctoral study in current theories and research related to art education. Prerequisites: ARE 6706 and EDF 6486.

BTE 3068 Principles of Business Education (3). Competency: A knowledge of basic philosophies, principles, practices, trends, and objectives in Business Education.

BTE 4401 Special Teaching Lab:
Business Education Skills (3).
Competency: Knowledge and
application of instructional principles,
methods, techniques and practices to
the teaching for office careers to include
office simulation and cooperative
business education. Prerequisites: BTE
3068 and professional education core
concurrent with BTE 4944.

BTE 4410 Special Teaching Lab: Business Education Non-Skills (3). Competency: Knowledge and application of instructional principles, methods, techniques, and practices to the teaching of accounting, bookkeeping, and basic business and economic education courses. Prerequisites: BTE 3068 and professional education core concurrent with BTE 4944.

BTE 4944 Special Teaching Lab: Business Education Practicum (1-3). Competency: Application of methods of teaching in business and office occupations in selected institutions and knowledge of educational institutions. Prerequisites: BTE 3068 and professional education core concurrent with BTE 4410 and BTE 4401.

BTE 4945 Student Teaching In Business Education (9). Competency: Competencies developed in the utilization of instructional knowledge, attitudes, and skills in business education instructional situations. Prerequisites: BTE 3068, 4360, 4364 and 4944; professional education core.

BTE 5447 Teaching Basic Business and Consumer Education (3). Competency: Knowledge of current and evolving methods, techniques and practices to teach and evaluate basic business and consumer education programs. Prerequisite: Graduate Standing.

BTE 5455 Teaching in Business Education Occupational Programs (3). Competency: Knowledge of current and evolving methods, techniques and practices to teach and evaluate office education programs to include office simulation and cooperative business education.

BTE 5671 Problems, Issues and Trends In Business Education (3). Competency: Historical information, issues, current trends, new dimensions and problems in business education. Prerequisite: Graduate standing.

BTE 6432 Teaching Word Processing (3). Competency: Knowledge, techniques, methods of teaching, concepts and applications of word processing essential for instruction.

BTE 6905 Directed Independent Study (1-3). Competency: The ability to identify, research, and report on a special problem in business education. Subject to approval of the program advisor.

BTE 6925 Workshop in Business Education (1-3). Competency: Selected competencies related to instructional and technical areas of business education.

BTE 6940 Supervised Clinical Field Experience (1-3). Competency:

Updating and upgrading of occupational skills developed via field-based work experience in the business and office occupations. Placement is made subject to approval of program advisor.

CHD 3220 Child Development: Infancy and Early Childhood (3). Systematic study of total developmental process in the child from conception through early childhood emphasizing the effects of home and lamily environment. Includes observational experiences.

CHD 4210 Middle Childhood and Adolescent Development (3). Extension of the study of developmental patterns of children, with emphasis on physical, intellectual, social, and emotional maturation through adolescence. Analysis of environmental and home influences.

CHD 4930 Seminar in Child Development (3). Study of current issues and trends in child development and the professional role of the home economics developmental specialist.

CHD 5264 Advanced Studies in Child Development (3). Survey of current literature on selected areas, analysis of trends and issues, and investigation of recent research in Child Development. Prerequisites: CHD 3220, CHD 4210 or equivalent.

CGS 5410 Logo for Educators (3). Aspects of Logo as used by educators. Creative aspects, the language, philosophy, structure, and application Prerequisite: Computers in Classroom or equivalent.

CGS 5413 PILOT for Educators (3). Authoring language PILOT for teachers. Designed to develop language and its application to all levels of education Prerequisite: EME 6405 or equivalent

COA 5450 Consumer Legislation (3). Study of federal and state logislation and regulations affecting the consumer and business. Appropriate for business and consumer affairs majors.

DAA 1300L Social Dance (1). This course is designed to promote skills in the performance of various social dances including the waltz, cha-cha, rumba, tango, samba, and loxitot, also contemporary and popular dances. This course will not count toward graduation except Physical Education Majors

DAE 3371 Dance In the Elementary and Middle School (3). The study of the scope, structure, and sequence of the dance program for grades K-8 Emphasis on educational dance and simple forms of folk and square dance.

DAE 4362 Dance in the Middle and Secondary School (3). Includes content and methods for teaching dance in grades 6-12. Emphasis on structured multi-cultural dance forms including folk and square dance, social dance, and country-western dance. Prerequisite: Dance activity class from lower division.

EDA 6061 Introduction to Educational Leadership (3). Examines the public school system as a complex formal organization; the dynamics of community-school interactions; goal clarification and program evaluation; procurement and allocation of resources; and the legal context within which the school system operates.

EDA 6063 Administration of Independent Schools (3). A survey course to examine administration of private schools. Will include sectarian and nonsectarian schools, historical overview, values, funding, administration.

EDA 6223 Emerging Designs for School Organization and Staff Utilization (3). Critical analysis of alternatives to traditional school organization and staffing and possible future alternatives in public education.

EDA 6225 Labor Relations in Education (3). Examining relations between a district school board and its employees as professional organizations, unions, contract management, and employer-employee relationships.

EDA 6232 School Law (3). A basic course in school law. Students will understand: the law library and its relationship to the school; demonstrate a knowledge about our legal system; will function in a legal framework, and will identify basic concepts of the law as applied to education.

EDA 6242 School Finance (3). Describes and analyzes current and emerging school finance plans; the influence of the courts and federal and state legislation on those plans; special locus on the Florida Education Financo plan; and the budget responsibilities of the school principal at the school center

EDA 6271 Microcomputer Application for Administrators (3). The role of computers in educational administration Applications generic to effective leadership utilizing computer technology

EDA 6503 The Principalship (3).
Organization and administration of the school, emphasis on competencies necessary for leadership and

management of the school center, both elementary and secondary.

EDA 6510 Elementary School Administration (3). Development of competencies required to function as the principal of an elementary school, with particular attention to the urban setting.

EDA 6530 Secondary School Administration (3). Development of competencies required to function as the principal of a secondary school, with particular attention to the urban setting.

EDA 6905 Individual Study In School Administration Supervision (1-3). For advanced students wishing to undertake an individual project directly related to school administration or supervision. May not substitute for regular course offerings. Prerequisites: (1) The student must be in a master's degree program in educational leadership at this university, and (2) gain written permission of the program leader and approval of the instructor is required.

EDA 6928 Workshop In School Adminiatration/Supervision (1-5). Offers an opportunity for experienced school personnel supervisors to participate in a problem-oriented workshop.

EDA 6930 SemInar In Educational Leadership (3). In-depth review of competencies in the eight domains of effective educational leadership. Focus is on case studies and research related to basic and high performing competencies of school managers.

EDA 6943 Supervised Field Experience (1-5). Development of supervisory skills by undertaking an arranged field-based assignment. Prerequisites: The student must be in a master's degree program in educational leadership at this university, and must have permission of program director.

EDA 7062 Educational Organization and Administration (3). Purposes, structure, and administration of educational organization. Prerequisites: EDA 6061 and admission to the doctoral program.

EDA 7103 Theories of Educational Administration (3) Examination of theoretical constructs and models related to the organization and administration of educational institutions Prerequisites: Admission to doctoral program and completion of at least 12 semester hours of EDA coursework.

EDA 7195 Educational Policy (3). Review, analysis, and synthesis of

various concepts and models of educational policy formation and implementation.

EDA 7197 Politics of Education (3). Analysis of the political dynamics of educational governance and of the political dimension of educational administration.

EDA 7233 School Law II (3). Examines the area of school law in depth and includes special topics in law, policy and research. Prerequisite: EDA 6232.

EDA 7235 School Law Seminar (3). A seminar to examine the area of school law in depth. Includes selected topics in law, research, dissertation prospectus as appropriate. Prerequisite: EDA 6232

EDA 7236 Law and Higher Education (3). Analyzes the legal structure of higher education including religion, academic freedom, employment, due process, student's rights, desegregation, lort liability, and current other issues.

EDA 7550 Administration of Higher Education (3). Analysis of colleges and universities as social organizations, with special emphasis on issues of administration, organization, and governance in higher education.

EDA 7905 Independent Study (1-6). An opportunity for advanced graduate students to engage in independent study under the direction of a laculty member. Prerequisite: Admission to doctoral program, and permission of program leader.

EDA 7930 Seminar in Educational Administration and Supervision (3). Consideration of current critical problems and issues in the organization and administration of educational institutions and the role of official leadership in relation to them. Prerequisites: EDA 7103 and admission to doctoral program.

EDA 7943 Fleid Projects (1-6). Participation by advanced graduate students in field projects and studies, usually as a member of an official work group related to an educational organization. Prerequisite: Admission to doctoral program, and permission of program leader.

EDA 7979 Disaertation Research Seminar (3). Designed to provide advanced doctoral students with a knowledge and understanding of the process of dissertation research and writing and of the dissertation defense. Prerequisite: Advanced doctoral standing. EDA 7980 Dissertation (3-12). Research for doctoral dissertation. Prerequisite: Advancement to candidacy in doctoral program.

EDE 4451C Evaluation in Elementary Education (3). Designed to provide the Elementary Education pre-service teacher with knowledge and practical approaches to evaluation in the elementary school.

EDE 4925 Workshop in Elementary Education (1-3). An opportunity for students to continue to develop competency in a specified area of elementary education. No prerequisites.

EDE 4936C Senior Seminar In Elementary Education (3). A seminar designed for student teachers covering topics related to classroom management, discipline, school community relations, professional problems and issues. Corequisite: EDE 4943.

EDE 4940 Internship I-A: Elementary Education (1). A first introductory experience in observing and performing tasks in a public school elementary classroom. Corequisites: EDF 3723, EDG 3321, EDG 3322.

EDE 4941 Internship I-B: Elementary Education (1). A second introductory experience in observing and performing tasks in a public school elementary classroom. Prerequisites: EDF 3723, EDG 3321, EDG 3322, EDE 4940.

EDE 4942 Internship I-C: Elementary Education (1). A third introductory experience in observing and performing tasks in a public school elementary classroom. Prerequisites: EDF 3723, EDG 3321, EDG 3322, EDE 4940, EDE 4941.

EDE 4943 Internship II (12). A field experience in an elementary school where the student serves as a teacher associate, demonstrating competencies acquired throughout the program. Prerequisites: ARE 3313 or MUE 3313, EDE 4451C, EDE 4936, HLP 3013, LAE 4314, MAE 4312, RED 4150, RED 4311, SCE 4310, SSE 4312. Corequisite: EDE 4936.

EDE 5267 Education of the Child in Urban Society (3). For students desiring advanced study in the schooling of inner-city pupils in K-6. Prerequisites: EDF 3723, EDG 3321, EDG 3322.

EDE 5905 Individual Study in Elementary Education (1-3). Individual investigation in the area of instruction in elementary education. Permission of instructor required. EDE 6205 Curriculum Design for Childhood Education (3). A study of curriculum theory, construction, and evaluation.

EDE 6225 Education Programs for Older Children (3). Program developed for older children; curriculum trends based on contemporary psychological, educational and sociological research.

EDE 6488 Research in Elementary Education (3). Expose students to research in elementary education and the paradigms associated with this research. Teach students to be critical readers of this research. Prepare students for thesis. Prerequisite: EDF 5481.

EDE 6925 Workshop in Elementary Education (1-3). An opportunity for teachers to continue to develop competency in a specified area under the guidance of a specialist in selected fields in elementary education.

EDE 6930 Seminar in Elementary Education (3). Advanced study of critical issues and problems in elementary education.

EDE 6948 Supervised Field Experience in Elementary Education (3-9). Field work in education institutions and organizations in elementary education.

EDE 6971 Thesis in Elementary Education (6). Design and preparation of an original scholarly investigation in elementary education. Prerequisites: EDF 5481, EDE 6488, and consent of instructor. Corequisites: EDE 6930.

EDE 7935 Doctoral Seminar in Elementary Education (3). Advanced doctoral study of current theories and research related to elementary education. Prerequisite: EDF 6486.

EDF 2930 Teaching as a Profession (3). An introductory seminar to introduce students to the opportunities available in the teaching profession.

EDF 3521 Education in History (3). An examination of the concepts of childhood, and processes of social initiation in differing historical contexts.

EDF 3542 Philosophy of Education (3). Concepts of philosophy and education will be applied in the review of prominent philosophies of education. Special attention will be given to the development of the student's own philosophy of education and to the importance of philosophical assumptions in curriculum designs and teaching strategies. EDF 3723 Schooling in America (3). Systematic analysis and examination of critical educational issues in terms of their influence and impact on curriculum and instruction in contemporary schooling.

EDF 4881 The Teacher and the Law (3). For advanced undergraduates and beginning teachers. Analysis of legal rights and responsibilities in the classroom, laws related to liability, contract, records, discipline, due process, handicapped, and schools.

EDF 5216 Effective Learning in the Cleasroom (3). A behavioral approach to effective teaching techniques, including theoretical background, behavioral definitions, writing effective objectives, and evaluation of effective learning in the classroom. A field experience will be included.

EDF 5287 Instructional Technology: Systems Approach (3). Development of instructional competencies, with an emphasis on the use of a systems approach in the design, implementation, and evaluation of programs.

EDF 5432 Measurement and Evaluation in Education (3). Competencies required for the design, construction or selection, and evaluation of measuring instruments. Prerequisite: EDF 5481.

EDF 5481 Analysis and Application of Educational Research (3). Competencies required for the design, implementation, and evaluation of educational research, including problem formulation and analysis, sample selection; instrument selection;

formulation of research design and

procedure: and data analysis

EDF 5751 Socio/Cultural Conflict in Educational Change (3) This course explores radical interpretations of the relationship of education to development in the Third World Emphasis will be placed on the problem of values conflict

and on the use of appropriate educational

technologies, Prerequisite: EDF 5750

EDF 5812 National Educational Systems: A Comparative Analysis (3). Examination of educational structures and guiding educational objectives in a limited number of both developed and developing countries. Analysis of the responses of national educational systems to common educational issues.

EDF 5820 Latin American Education: An Historical and Contemporary Overview (3) Historical and current development of Latin American education, and analysis of the principal forces shaping this development.

EDF 5821 African Educational Systems: A Comparative Approach (3). Contemporary trends and issues of education in selected independent African countries, with historical analysis of colonial educational policies and practices.

EDF 5850 International Development Education: Historical and Contemporary Reality (3). Designed to explore the relationship between education and the modernization/development process. Special emphasis on historic/contemporary educational planning models.

EDF 5851 Socio/Cultural Conflict in Educational Change (3). This course explores radical interpretations of the relationship of education to development in the Third World. Emphasis will be placed on the problem of values conflict and on the use of appropriate educational technologies. Prerequisite: EDF 5850.

EDF 5852 Educational Development Issues In Content: A Multidisciplinary Perspective (3). A critical analysis of educational reforms of the past and the present, drawing on social science research and policy issues in the Third World. Prerequisite: EDF 5850.

EDF 5880 Intercultural Education: National and international Perspectives (3). Analysis of concepts and programs of intercultural and international education, consideration of the role of education in lostering intercultural understanding both nationally and internationally.

EDF 5881 Foundations of Bilingual Education (3). Focus on an understanding of the bases and rationale for bilingual education, including linguistic, psycholinguistic and sociolinguistic; historical legal perspectives. Issues in elementary, secondary, adult, vocational, and special education will also be addressed.

EDF 5905 Independent Study (1-3) The student plans and carnes out an independent study project under direction. Topics are te directly relate to content of education courses Independent study may not substitute for regular course offerings. Prerequisites Written permission of the chairman of the Division and the approval of the instructor.

EDF 5941 Practicum I in Urban Education (5) Demonstration of competencies needed by teachers in urban schools. Prerequisite: Current Florida Teaching Certificate.

EDF 5942 Practicum II In Urban Education (5) Demonstration of competencies needed by teachers in urban schools. Prerequisite: Current Florida Teaching Certificate.

EDF 5943 Precticum III in Urban Education (5) Demonstration of competencies needed by teachers in urban schools. Prerequisite: Current Florida Teaching Certificate.

EDF 5955 Field Study Abroad (3-6). Development of international and crosscultural understandings of educational philosophies and systems through planned travel and study abroad.

EDF 6165 Psychological Foundations of Education (3). An advanced survey course designed to acquaint students with major theories and basic principles of learning, instruction, human development, personality, and motivation.

EDF 6211 Psychological Foundations of Education (3). An advanced survey course designed to acquaint students with major theories and basic principles of learning, instruction, human development, personality and motivation

EDF 6215 Application of Learning Theory to Instruction (3). Competencies required for analysis of selected learning theories and application of these theories to an instructional system

EDF 6403C Quantitative Foundations of Educational Research (3). Integrative coverage of fundamentals in the general field of educational research with emphasis on utilizing computer for data analysis. Prerequisites: EDF 5481 and EDF 6486, and STA 5163 or STA 6113.

EDF 6444 Non-Blased Assessment of the Culturally Different (3). Issues in the development and use of assessment procedures designed to avoid bias against an individual's cultural, linguistic, or ethnic background

EDF 6475 Qualitative Foundations of Educational Research (3). Introduction to philosophical, historical, sociological, and other methodologies as aspects of qualitative educational research Prerequisites. EDF 5481 and EDF 6486

EDF 6486 Research Methods In Education: Experimental Design and Analysis (3) Competencies required for

the design and analysis of complex educational problems, including formulation of pre-experimental, true experimental, quasi-experimental, and lactorial designs; and related analysis. Prerequisite: EDF 5481.

EDF 6651 International Development Education: Educational Technology, Planning, and Assessment (3). Introduction to the impact of technology in the delivery and management of education. Emphasis is placed on planning, implementation, and assessment in developing societies. Pererequisite: EDG 6425 or equivalent.

EDF 6654 Macro- and Micro-Planning In Education (3). This course is designed to study the theoretical and methodological loundations of educational planning in the U.S. and other countries. Prerequisites: Graduate Standing; EDF 5481 or equivalent.

EDF 6656 International Development Education: Innovative Approaches in Educational Planning (3), Introduction to educational planning approaches which stress decentralization. It locuses on new and innovative perspectives which emphasize strategic aspects of educational planning. Prerequisite: EDF 6654.

EDF 6658 Selected Topics In International Development Education: Current Policy Issues and Problems (3). This course is dedicated to the study of contemporary problems and issues in the fields of educational policy, planning, management, implementation, and research in developing societies.

EDF 6906 Independent Study In International Development Education (3). Specialized intensive study in areas of interest to International Development Education majors. Prerequisite: Approval of program advisor and instructor.

EDF 6925 Workshop In Urban Education (1-5). An opportunity for school personnel to develop special competencies in teaching in an urban environment. Prerequisite: Permission of instructor.

EDF 6931 Research Problems In Educational Psychology (3). Critical analysis of research trends and topics in educational psychology with specific relevance to counseling, school psychology, or special education. Students prepare a prospectus for thesis.

EDF 6971 Thesis in Educational Psychology (3). Competencies in conducting an original investigation in Educational Psychology with specific relevance to counseling, school psychology, or special education.

EDF 6972 Thesis in International Development Education (3-9). A thesis is required of students in International Development Education which demonstrates the application of their analytical, conceptual, and technical skills to a specific educational development problem. Prerequisite: Final semester standing in the International Development Education Master's degree program.

EDF 7934 Seminar In the Social Foundations of Education (3). Provides a social and philosophical frame of reference reflecting the society in which education occurs and the resulting implications for the functioning of schools. Prerequisites: M.S. or equivalent and at least one graduate course in history, philosophy or sociology, or equivalent.

EDG 3321 General Teaching Laboratory I: Basic Teaching Skills (3). Practice in generic teaching skills, techniques and strategies basic to all age levels and subject matter areas. Lecture, seminar, and laboratory.

EDG 3321L General Teaching Laboratory I: Laboratory (2). General teaching skills laboratory to develop and retine basic teaching skills in the areas of instruction, classroom management, and evaluation. Corequisite: EDG 3321.

EDG 3322 General Teaching Laboratory II: Human Relations Skills (3), Designed to enable student to work effectively in multi-cultural and multiethnic communities through the examination of self, the development of human relations and communication skills, and the examination of today's complex urban society.

EDG 3760 Educational Planning: Paraprofessional for Mutitcultural Exceptional Students (3). Concepts and skills used in planning educational programs for exceptional students representing diverse cultural/ethnic backgrounds. Guidelines for examining and developing curriculum materials for use with handicapped students of different cultures. Prerequisite: Associate degree of equivalent.

EDG 3761 Supervised Field Experiences for Paraprofessionals: Multicultural Exceptional Students (3). Demonstration of competencies learned throughout Bilingual Exceptional Programs. Field settings in which 80% of the students are of multicultural origin. Prerequisite: Associate degree or equivalent and EEX 3223.

EDG 4702 Educational Psychology of Multicultural Students (3). Introduction to principles and procedures utilized in teaching students from multicultural communities. Prerequisite: Associate degree equivalent and Educational Psychology. Corequisite: EDG 4703.

EDG 4703 Educational Psychology Supervised Field Experience with Multicultural Students (3). Demonstration of competencies learned throughout study program in educational psychology of multicultural students. Prerequisite: Associate degree of equivalent.

EDG 5325 Anelysis of Teaching (3). Examination of the research on instruction in teaching, and the development of skills in the observation and analysis of teacher behavior.

EDG 5707 Cultural and Cross-Cultural Studies (3). Overview of immigration patterns in U.S., discussions of theories of ethnicity, acculturation, intercultural communication. Development of teaching strategies for multicultural classrooms. Multicultural issues in elementary, secondary, adult, vocational, and special education will also be addressed.

EDG 5757 Curriculum Development for Bilingual Programs (3). Presents curriculum designs and plans for bilingual schooling. Examines materials available for bilingual classes, with emphasis on adaptations and original creations to meet local needs. Issues in elementary, secondary, adult, vocational, and special education will also be addressed.

EDG 6250 Curriculum Development (3). Development of basic technical constructs of curriculum. Planning of reality-based educational programs at all levels of schooling.

EDG 6286 Curriculum Evaluation and Improvement in Urban School Systema (3). Development of skills in curriculum evaluation and strategies for improvement of on-going curriculum.

EDG 6925 Workshop in General Professional Education (1-3). Offers an opportunity for school personnel to participate in a problem-oriented workshop in one of the fields of general professional education.

EDG 6943 Supervised Field Experience (1-5). Students are provided an opportunity to perform supervisory duties appropriate to the students professional goals. Only advanced graduate students are permitted to enroll.

EDG 7222 Theory and Research (3). Theories of curriculum organization and a survey of curriculum research and historical patterns of curriculum development. Prerequisite: EDG 6250.

EDG 7362 Theory and Research (3). Theories of instruction and research in the learning process, creativity, the thought process, human relations and group dynamic and other fields related to the development of instructional theory and practice. Prerequisites: EDG 6250 Psychology of Learning or equivalent.

EDG 7391 Seminar In Instructional Leadership (3). Review theories of change and organizational development applicable to education. Discussion of rules and functions of supervisors, curriculum developers and other leaders in the instructional process.

Prerequisites: EDS 6115 or EDS 6050.

EDG 7665 Seminer in Curriculum (3). Provides advanced doctoral students the opportunity to participate in a high level seminar locused on identifying the forces which shape curriculum theory and practice. Prerequisite: EDG 7222.

EDG 7938 Doctoral Seminar In Instructional Leadership (3). Advanced doctoral studies in current theories and research related to instructional leadership. Prerequisite: EDG 7391.

EDG 7980 Doctoral Dissertation (3-20), Original contribution to knowledge in major field. Percequisite: doctoral candidate

EDH 6905 Directed Independent Study (1-6). Specialized intensive study in higher education and/or community college in areas of interest to the student. Subject to approval of program advisor. Prerequisite: Permission of instructor.

EDH 6925 Workshop in Higher Education/Community College (1-6). Intensive development of selected competencies related to instructional curricular, staff development and/or administrative skills of special interest to students in higher education and community colloge Prerequisite Permission of instructor

EDH 6935 Special Topics in Higher Education/Community College (1-6). This course provides for the examination of special aspects of higher education of interest to students in higher education and community college teaching.

Prerequisite: Permission of instructor.

EDH 7065 Higher Education: Philosophical/Historical Perspectives (3). This course examines basic philosophical positions in higher education; and the history of American higher education. A contemporary philosophical position is then developed.

EDH 7204 Higher Education: Community College (3). This course examines the structure of the community college including: curriculum; administration and legal aspects; the community college concept; technical and career programs and current issues and problems.

EDH 7225 Higher Education: Developmental Programs (3). This course examines the spectrum of developmental programs in higher education. Special attention is given to program structure, academic support systems and curricula designed to increase student achievement.

EDH 7307 Higher Education: Instructional Methods (4). This course will develop knowledge of and skill in the use of higher education instructional methods, such as lecture, discussion, demonstration, TV instruction, and computer assisted instruction.

EDH 7980 Dissertation in Community College Teaching (1-10). Research for doctoral dissertation. Prerequisites: Advancement to candidacy in the doctoral program and completion of all other doctoral requirements. Course may be repeated as needed.

EDP 3004 Introductory Educational Psychology (3). An introduction to the ways in which the principles of psychology apply to educational practices, considering aspects of basic processes such as development, learning, individual differences, and adjustment, with special reference to the problems of teacher effectiveness and teacher-student interaction

EDS 6050 Supervision and Staff Development (3). Competencies in supervision and staff development Focus is on functions, tasks, and job dimensions of educational leaders who serve as supervisors and providers of staff development activities.

EDS 6115 School Personnel
Management (3). Competencies
required of effective school personnel
Focus is on skills needed for exercising
leadership in school personnel selection,
evaluation, and development

EDS 7150 Doctoral Seminar in Educational Supervision (3). Special and intensive treatment of current topics and issues in educational supervision. Prerequisites: EDS 6050 and admission to the doctoral program.

EDS 7160 Personnel Management in Education (3). Personnel Management in education: current theories; policies and practices in recruitment; promotion; tenure; retirement; staff development; termination procedures; performance evaluation; and collective bargaining. Prerequisites: EDA 6061, EDS 6050, EDS 6115, and admission to the doctoral program.

EEC 4005 Early Childhood Education Programs (3). Philosophy and theories of early childhood education; physical, emotional, social, and mental development. Observation and participation are required. Senior class status required.

EEC 4204 Curriculum and Instruction In Early Childhood Education (3). Practical considerations of basic principles, experiments, research, and trends related to early childhood education. Examination of materials and techniques of teaching and working with parents. Observation and participation are required. Senior class status required.

EEC 4266 Curriculum Programs - Infancy (3). Provides comprehensive coverage of curricula and educational programs for infants and toddlers.

EEC 4267 Curriculum Programs -Preschooler (3). The study and development of the curriculum for young children

EEC 4301 Trends In Early Childhood Education (3). Understanding and dealing with critical issues; assessing the progress of contemporary programs locally and nationally; and recommending solutions for current problems.

EEC 4524 Development and Administration of Early Childhood Programs (3), Preparation for the administration of programs for young children. Perequisite: Background in Early Childhood Education.

EEC 4704 The Education and Development of Young Children (3). Inlant, toddlers and young children's physical, motor, intellectual, social and emotional development and educational enhancement

EEC 4925 Workshop in Early Childhood Education (1-3). An opportunity for students to continue to

develop competency in a specified area of early childhood education.

EEC 4940 Internship I-A: Early Childhood Education (1). A first introductory experience in observing and performing tasks in a public school early childhood classroom.

EEC 4941 Internship I-B: Early Childhood Education (1). A second introductory experience in observing and performing tasks in a public school early childhood classroom.

EEC 5906 Individual Study in Early Childhood Education (1-3). Individual investigation in the area of preschool and early childhood education. Permission of instructor required.

EEC 6205 Education Programs for Younger Children (3). Programs developed for young children; curriculum trends based on contemporary psychological, educational, and sociological research.

EEC 6612 Screening and Assessing for Assignment of Preventative, Developmental, and Enrichment Strategies for Primary Children (3). Designed to assist the primary teacher and primary specialist to understand the processes of and methods for screening, assessing, and assignment of preventative, developmental, and enrichment strategies for primary children.

EEC 6678 Research In Early
Childhood Education (3). Expose
students to research in early childhood
education and the paradigms associated
with this research. Teach students to be
critical readers of this research. Prepare
students for thesis. Prerequisite: EDF
5481.

EEC 6926 Workshop In Early
Childhood Education (1-3). An
opportunity for teachers to continue to
develop competency in a specified area
under the guidance of a specialist in
selected fields in preschool and early
childhood education.

EEC 6932 Seminar In Early Childhood Education (3). Advanced study of critical issues and problems in preschool and early childhood education.

EEC 6948 Supervised Experience in Early Childhood Education (3-9). Field work in educational institutions and organizations in preschool and early childhood education.

EEC 6971 Thesis in Early Childhood Education (6). Design and preparation of an original scholarly investigation in early childhood education. Prerequisites: EDF 5481, EEC 6678, and consent of instructor. Corequisite: EEC 6932.

EEC 7932 Doctoral Seminar In Early Childhood Education (3). Advanced doctoral study of current theories and research related to early childhood education. Topics will vary and may include: social, cognitive, affective and language development. Prerequisite: EDF 6486.

EED 4227 Educational Planning for Emotional Handicaps (3). Concepts and skills with various models of curriculum, instruction, and classroom design for individuals with social and emotional adjustment problems. Laboratory experiences required Prerequisites: EEX 4241, EEX 4601. Corequisite: EEX 4242.

EED 6226 Advanced Theory and Practice: Emotional Handicaps (3). Major theories in the area of behavior disorders, and skills in the application of these theories to education. Prerequisite: EED 4227 or permission of instructor.

EEX 3010C Introduction to Exceptional Children and Youth (3). Significant concepts in relation to the learning and adjustment problems of exceptional children and youth. Field experiences required.

EEX 3202 Foundations of Exceptionality (3). Basic concepts in relation to the biological, genetic, psychological, and social foundations of handicapping conditions, as they apply to classroom behavior.

EEX 3221 Assessment of Exceptional Children and Youth (3). Competencies in assessment of the basic modalities of learning (visual, auditory, haptic, and perceptual motor processes), and the language areas of reading, writing, spelling, and arithmetic.

EEX 4070 Exceptional Children in the Mainstream of Education (3). Characteristics of mildly handicapped children and techniques of identifying, assessing, managing and instructing them in the regular classroom.

EEX 4241 Academic Skills for Exceptional Children (3). Competencies in the selection, adaptation, and preparation of appropriate instructional materials in arithmetic, art, music, science, and social studies, including skill with audiovisual equipment and other multi-media approaches. Prerequisites: EEX 3010C, SPA 3000, EEX 3221, RED 4310. EEX 4242C Academic Skills for Exceptional Children (3). A field-based course where competencies are demonstrated in the areas of assessment, prescriptive teaching, IEP development, lesson planning, and curriculum scope and sequence. Prerequisite EEX 4241.

EEX,4253 Educational Programs for the Handicapped at the Secondary Level (3). Analysis and application of instruction methodology and service delivery models for handicapped students in secondary school programs.

EEX 4601 Behavioral Approaches to Classroom Learning I (3). Concepts and skills for building and modifying social and academic behaviors. Skills in precision teaching, behavior modification, and the functional analysis of behavior. Prerequisites: EEX 3010, 3202. SPA 3000. EEX 3221.

EEX 4611 Behavioral Approaches to Classroom Learning II (3). Concepts and skills necessary for the management and maintenance of classroom behavior, including token economies, current development planning, and parent/ teacher consultation. Field experience required. Prerequisite: EEX 4601.

EEX 4861 Student Teaching (12). A field experience in a program for exceptional children, demonstrating competencies learned throughout the program.

EEX 4905 IndIvIdual Study in Special Education (1-6). Concepts or competencies contracted for between an undergraduate student and an instructor in accordance with the student's individual needs.

EEX 5250 Reading for Exceptional Students (3), Instructional and curricular adaptations and modifications of developmental reading programs for students for varying exceptionalities. Prerequisite: RED 4150 or equivalent.

EEX 5771/HME 5255 Independent Living for the Handlcapped (3). Explores the special home and personal living skills required in order for persons with mental and physical limitations to achieve their maximum independence. Suitable for students in psychoeducational services, health, physical education and recreation, social work, home economics, or anyone planning to work with the elderly or handicapped. Approved for certification for teachers of the mentally retarded,

EEX 6020 Professional Issues in Special Education (3). Current issues in the special education profession, with focus on changing trends, delivery of service, legislation, and role diversification. Emphasis is placed on articulation of a personal professional role model.

EEX 6051 Exceptional Children and Youth (3). Significant concepts in relation to the learning and adjustment problems of exceptional children and youth. Field experience and graduate project required.

EEX 6060 Curriculum Planning and Development in Special Education (3). This course stresses special education curriculum content and methodologies, and emphasizes the learning characteristics of exceptional children and youth. Curriculum planning and development as a generic process will be also reviewed. Prerequisite: EEX 4241.

EEX 6065 Educational Programs for Secondary Level Exceptional Students (3). Development of curriculum, methodology, and program designs for the education of exceptional students in secondary school settings.

EEX 6072 MeInstreaming Exceptional Children: Issues and Techniques (3). Awareness of issues underlying the movement to mainstream mildly handicapped students. Techniques and procedures for effective mainstreaming of these students

EEX 6106 Diagnostic Teaching: Acquisition of Language and Reading Skills (3). Concepts in acquisition and development of language and reading skills.

EEX 6203 Advanced
Psychological/Sociological Aspects
of Exceptionality (3), Advanced
psychological and social aspects of
handicapping conditions in relationship
to classroom behavior and community
functioning.

EEX 6208 Medical Aspects of Disability (3). Medical etiology and remediation of disability Includes genetic, biochemical, nutritional, and physical agents in retardation, learning handicaps, and emotional illness Prerequisite: EEX 3202 or equivalent

EEX 6211 Assessment of Behavlor I
(3). Basic concepts in assessment theory. Competencies in using a variety of standardized tests in assessing and writing educational prescriptions for children with disorder in visual, auditory and haptic processing, in language, or integrative systems

EEX 6227 Diagnostic Teaching: Educational Assessment (3). Skill in application of assessment theory to classroom diagnosis and to the development of instructional objectives.

EEX 6229 Curriculum Design for Mildly Handicapped Students (3). Delineation of content and objectives that provide the basis for development, application, and evaluation of curriculum strands for mildly handicapped students.

EEX 6235 Curriculum Design for Students with Severe and Profound Handicaps (3). Analysis of ethical and legal bases of curricula for the severely and profoundly handicapped. Specification of curricula content, approaches, models, programs, and components. Prerequisite: EEX 4241 or equivalent.

EEX 6301 Research In Cognitive Process (3). Review of research and theory pertaining to cognitive development of exceptional individuals. Applications of theory and research include cognitive strategy training and enhancement of attention and memory. Prerequisite: EEX 6165 or DEP 6645.

EEX 6417 Guidance and Counseling of Gifted Students (3). Affective development, parental involvement, counseling theories, underachieving gifted.

EEX 6521 Delivery of Services to Exceptional Individuals (3). Analysis and applications of traditional and specialized aspects and techniques of delivery of services involved in planning, developing, implementing, and guiding exceptional individuals programs by special education leadership personnel. Prerequisite: EEX 6051 or equivalent.

EEX 6522 Seminar in Special Education School Law (3). Exploration of various legal aspects as related to the administration and organization of special education and a study of the ethical and legal principles supporting statutory and judicial activities in special education Prorequisite EDA 6232

EEX 6523 Special Education Leadership (3). Analysis of the interactive process within and between groups of special and regular educators Simulated activities in decision making in special education with devolopment of advocacy and change-agent roles Prorequisite: EEX 6020 or equivalent

EEX 6535 Seminar in Special Education School Administration (3). Problems in school administration and patterns of curriculum organization as they relate to the handicapped. Focus on conceptual frameworks, change factors, and future trends in special education. Prerequisite: EEX 6051 or equivalent.

EEX 6612 Diagnostic Teaching: Systems and Behavioral Models (3). Skills in the application of diagnostic data to various instructional strategies and behavioral models.

EEX 6846 Diagnostic Teaching: Advanced Practicum (3). Application of diagnostic teaching models to individualized, remedial, and compensatory instructional programs.

EEX 6863 Supervised Field Experience in Special Education (3-9). Demonstration of the full range of competencies in diagnostic teaching learned throughout the program. Internship placements include a variety of field settings.

EEX 6906 Individual Study in Special Education (1-6). Concepts or competencies contracted for by graduate students with an instructor.

EEX 6927 Workshop in Special Education (1-6). Selected competencies in special education, developed in shortterm, intensive workshops.

EEX 6937 Seminars in Special Education (3, repeatable to 9). A. Topics in Mental Retardation B. Topics in Specific Learning Disabilities C. Topics in Behavior Disorders.

EEX 7980 Doctoral Dissertation (3-20). Original contribution to knowledge in major field. Prerequisite: Doctoral candidate.

EGC 5305 Educational-Vocational Counseling (3), Concepts and skills pertaining to vocational development, information systems, career education programs, educational-vocational counseling, and socio-psychological influences on career development

EGC 5405 Introduction to Counsellng (3). Major theoretical concepts in counselling, competencies in relationship-building, interviewing, role-playing, simulation, and micro-counselling

EGC 5425 Crials Intervention in the Schools (3). Prevention and intervention in the crisis situations including child abuse and neglect, suicide, substance abuse, AIDS, and personal loss.

EGC 6203 Measurement and Appraisal in Counseling (3). Concepts and skills related to the use of tests and

other appraisal procedures in counseling. Particular emphasis on career and vocational choice processes. Laboratory experiences included.

EGC 6469 Counseling the Culturally Different (3). Concepts and skills involved in counseling clients with backgrounds different from the majority culture.

EGC 6510 Theories in Group Dynamics (3). Systematic examination of various theories and relevant research used in study of small group phenomena. Prerequisites: EGC 6725, EGC6729, EGC 6709.

EGC 6540 Group Counseling (3). Exploration of roles and function of group counseling in meeting client needs in a variety of settings. Prerequisites: EGC 5405, EGC 6725, EGC 6726.

EGC 6560 Advanced Group
Development Laboratory (3).
Development of advanced skills in the
analysis and understanding of group
process, function, and structures through
actual observation of an ongoing group.
Prerequisites: EGC 6725, EGC 6726.

EGC 6569 Organization Development in Education (3). Analysis of theory and practice of organization development and planned change in educational systems. Prerequisites: EGC 6725, EGC 6726, EGC 6709.

EGC 6605 Professional Problems in Counseling (3). Competencies in regard to the development of major role and service models and the application of budgeting systems, legal, and ethical standards in a psycho-educational setting.

EGC 6616 Program Evaluation in Counseling and Education (3). Evaluation skills in the student's area of specialization, including competencies in designing evaluation proposals and conducting an actual program evaluation. Prerequisite: EDF 5481.

EGC 6676 Supervised Field Experience in Counselling (10). Demonstration of the full range of competencies learned throughout the program in Counseling. Internship placements include a variety of field settings.

EGC 6678 Supervised Field Experience in School Psychology (10). Demonstration of the full range of competencies learned throughout the program in School Psychology. Internship placements include a variety of field settings. EGC 6705C Principles of Design in Group Intervention: Role of the Consultant (3). Focuses on role of leader or trainer in complex training design in leadership and human relations training. Emphasis on Diagnostic and behavioral skills that help groups become more effective. Prerequisites: EGC 6725, EGC 6726, EGC 6509.

EGC 6707 Applled Behavior Analysis In Counseling and Education (3). Concepts and skills in using behavior modification: functional analysis of behavior, precision teaching, token economies, contingency contracting, parent and/or teacher consultation.

EGC 6708 Advanced Counseling and Consultation: Theory and Practice (3). Extended laboratory experiences stressing the development of skills in behavioral approaches to individual and group counseling, consultation, parent education, and in-service training. Prerequisites: EGC 5405 and EGC 6707 or equivalent.

EGC 6709 Human Interaction III: Organizational Consultation (3). Theoretical concepts and skills in organizational development and change. Competencies in systems diagnosis and assessment, consultation, agenda setting, team building, decision-making, and feedback, Prerequisite: EGC 6726.

EGC 6725 Human Interaction I: Group Process and Social Behavior (3). Concepts, research, and theory relative to small group process. Students will participate in small face-to-face task groups, with an emphasis on developing competencies in diagnosis and intervention in small groups.

EGC 6726 Human Interaction II: Analysis of Group Participation (3). Participation in an on-going group with attention given to examination of processes of small group phenomena such as interpersonal communication, norms, decision-making, leadership, authority, and membership. Prerequisite: EGC 6725.

EGC 6822 Advanced Practicum In Counseling (3). Advanced competencies in counseling and consultation. Prerequisite: Admission to the Certificate or Degree program.

EGC 6905 Individual Study in Pupil Personnel Services (1-6). Competencies contracted for between a student and an instructor in accordance with the student's individual needs. EGC 6925 Workshop In Psycho-Educational Services (1-6). Selected competencies in counselor education or school psychology, developed in shortterm, intensive workshops.

EGC 6936 Seminars in Counseling and Education (3, repeatable to 9). Special topics in relation to counseling or school psychology.

EGI 5051 Nature and Needs of the Gifted (3). Identification and placement procedures, history of the field, and psychological factors affecting development of the gifted-talented.

EGI 5232 Educational Procedures and Curriculum for Gilted (3). Basic curriculum models in education of the gifted. Relation of models to planning, implementation in traditional classrooms, resource rooms, and special classes.

EIA 4042 The Role of Industrial Arts In the Schools (3). Competency: Knowledge of the basic philosophy, goals, programs, principles, practices an learning environments in industrial arts, and the relationship of industrial arts to other school disciplines.

EIA 4360 Instruction in Industrial Arts (3). Competency: Application of education principles, practices, and techniques to the teaching of industrial arts. Prerequisite: EDG 3321.

EIA 4941C Student Teaching in Industrial Arts (9). Competency: The utilization of instructional knowledge, attitudes, and skills in industrial arts education instructional situations. Prerequisites: EIA 4360, EVT 3165.

EIA 5811 Equipment and Facilities Planning (3). Competency: Utilization of research, design, and engineering knowledge and skills to plan laboratory facilities and equipment.

EIA 5905 Individual Study (1-3). Competency: The ability to identify, research, and report on an industrial arts problem of interest to the student. Subject to approval of program advisor.

EIA 6683 Instructional Projects Development (3). Competency: Knowledge and skill in developing innovative instructional projects for use in industrial arts programs, grade 7-12. (Includes projects for handicapped and disadvantaged.)

EIA 6931 Analysis of Industrial Arts Education (3). Competency: Knowledge of industrial arts at the national, state, and local levels. ELD 4240 Educational Planning for Specific Learning Disabilities (3). Concepts and skills with various models of curriculum, instruction, and classroom designs for individuals with specific learning disabilities. Laboratory experiences required. Prerequisites: EEX 4241. EEX 4601.

ELD 5120 Nature and Needs of Secondary Learning Disabled Students (3). Review of learning and social-emotional characteristics of learning disabled adolescents. Integration of research and major developmental theories of learning, growth, and adjustment.

ELD 5250 Preparing Learning Disabled Students for Post-School Adjustment (3). Survey of career/vocational and post-secondary educational alternatives for learning disabled students. Techniques for advising and preparing these students for post-school adjustment are emphasized.

ELD 6323 Advanced Theory and Practice: SpecIIIc Learning Disabilities (3), Major concepts in the area of specific learning disability, and skills in the application of these concepts to education. Prerequisite: ELD 4240 or permission of instructor.

EME 3402 Computers for Teachers (3). An introductory course focusing on instructional uses of computers in precollege education. Designed to provide skills in using computers as a classroom tool.

EME 4103 Production and Use of Audio/Visual Media (3). Knowledge and skill in selecting and producing audiovisual media. Emphasis is placed on student production of audio and visual materials and equipment use.

EME 5315 Instructional Media (3). Development of competencies for effective selection and utilization of instructional media. Consideration of sources, selection, evaluation, and methods of implementing media.

EME 5403 introduction to Instructional Delivery Systems (3). A study of the rapidly expanding electronic media technology and its impact on instructional delivery Prorequisito EME 3402 or EME 6405

EME 5945 Workshop Computer Education (1-3). Offers an opportunity for teachers and trainers to participate in activities using specific computer applications EME 6405 Computers In the Classrooms (3). Learning to use microcomputers in a school setting. Emphasis on evaluating and documenting software; creation of classroom materials leading to development of useful software.

EME 6406 Microcomputers as Teaching Tools (3). This course develops ability to use the microcomputer as an object, medium, and manager of instruction in the classroom. Prerequisite: EME 6405 or EME 3402 or permission of instructor.

EME 6407C Instructional Programming for Teachers (3). An introductory course for teachers to use BASIC to write educational programs appropriate to the teacher's area of specialization. Prerequisite: EME 3402 or EME 6405 or permission of instructor.

EME 6412 Educational Courseware Evaluation and Development (3). This course develops ability to select, evaluate, design, and utilize appropriate software for the school curriculum. Prerequisites: EME 6405 or EME 3402 and one computer language or permission of instructor.

EME 6628 Administrative and Instructional Applications of Technology (3). Topics of this course include data management, instructional management, teleconferencing, scheduling, and productivity software for educational leaders and school managers.

EME 6905 Independent Study: Computer Education (1-3). The course provides an opportunity for the student to plan and carry out an independent study project under direction. Prerequisite: Permission of instructor.

EMR 4251 Educational Planning for the Mentality Retarded (3). Concepts and skills used in planning educational, pre-vocational and vocational programs for the mentally retarded. Laboratory experiences required Prerequisites: EEX 4241, EEX 4601

EMR 6852 Advanced Theory and Practice: Mentel Reterdation (3). Major concepts in the area of montal retardation and skills in the application of these concepts to education. Prerequisite. EMR 4251 or permission of instructor

ESE 5908 Individual Study (1-3)(ARR). The student plans and carries out an independent study project under direction. Prorequisite: Consent of instructor ESE 6215 Secondary School Curriculum (3). Examination of programs, trends, and developments in curriculum and instruction in the secondary school. Consideration and evaluation of innovations.

ESE 6425 Research In Secondary Education (1-3)(ARF). Examination and evaluation of research studies in secondary education. Prerequisite: At least one course in research methods or equivalent competency (Determination of equivalent competency will be made by the instructor.)

ESE 6925 Workshop In Secondary Education (1-3)(ARR). Production and application of materials and techniques in a laboratory or field setting. Prerequisite: Consent of instructor.

ESE 6935 Seminar in Secondary Education (1-3)(ARR). Analysis of selected problems in secondary education.

ESE 6947 Supervised Field Experience (3-9)(ARR). Field work in an educational institution or organization. Prerequisite: Consent of Chairperson of the Division.

ETE 3030 Survey of Electronics (3) The basic principles of AC and DC circuits, solid state devices, and fundamental electronic circuits. This course is intended for students outside of the Electrical Engineering Technology major with no prior knowledge of electronics (includes lab).

ETE 4562 Electrical/Electronic Power Systems (3). Introductory course designed primarily for the novice in electricity/electronics. Laboratory experience consists of planned activities centered about electrical/electronic instrumentation and power systems

ETM 4407L Mechanical Power Systems I (3).

Laboratory experiences in the theory of operation and related maintenance of single and multiple cylinder reciprocating engines. Includes introductory experience with mechanical, fluid, and pneumatic power systems.

ETM 4408 Mechanical Power Systems II (3).Advanced laboratory experiences with reciprocating engines. Introductory study of turbine, diesel, and rotary engines. Introductory study of aircraft structures and basic aerodynamics. Prorequisite. ETM 4407.

EVT 3065 Foundations of Vocational Education (3). Competency A knowledge of the history of vocational

education on the national, state, and local levels.

EVT 3161 Instructional Materials in Vocational Industrial Education (3). Competency: Technical knowledge and skill required to locate and evaluate existing instructional material and to plan, develop, and validate existing instructional materials.

EVT 3165 Course Planning (3). Competency: Basic knowledge and skill in analyzing, planning, and organizing bodies of knowledge for instructional purposes.

EVT 3367 Testing and Measurements In Vocational Education Subjects (3). Competency: Technical knowledge and skill in planning for and using tests and measurements as an integral part of the vocational-technical laboratory/shop teaching-learning process. Prerequisite: EVT 3165

EVT 3815 Vocational Education Laboratory Management and Safety (3). Competency: Knowledge and skill in analyzing, planning, organizing, and controlling laboratory environments and student's safe learning activities.

EVT 4164 Technical Applications in the Content Area (3). Competency: The ability to incorporate changing technical knowledge and skills of an occupational area into existing vocational education courses of study. Prerequisite: EVT 4946

EVT 4280 Occupational Safety and Health (OSHA) (3). Competency: Knowledge of the history, implications, and applications of the Occupational Safety and Health Act of 1970. For vocational and technical teachers, industrial employees, and management personnel.

EVT 4310 Planning and Operating HOE Programs (3). Competency: Identifying, designing, implementing, and evaluating Health Occupations Education Programs.

EVT 4311 Special Teaching Lab In HOE Programs (3). Competency. Knowledge of institutional structure, organization, policies, and roles of school personnel with actual teaching experience in area of specialization.

EVT 4312 Instructional Strategies and Evaluation in HOE Programs (3). Competency: Knowledge and skill in analyzing, planning, developing, executing, and evaluating classroom and laboratory teaching and learning activities in Health Occupations Education. EVT 4351 Teaching Limited-English-Proficient Students in Vocational Education (3). Competency: Knowledge of the history, principles, and practices, as well as skill in analyzing, planning, developing, executing, and evaluating classroom and laboratory teaching and learning activities for limited English Proficient students.

EVT 4365 Instructional Strategies and Evaluation in Vocational and Technical Education (3). Competency: Knowledge and skill in analyzing, planning, developing, executing, and evaluating classroom and laboratory teaching and learning activities.

EVT 4668 Emerging Emphasis in Career Education (3). Competency: A knowledge of current trends and issues in reference to developing and integrating career education into current elementary and secondary educational programs.

EVT 4905 Individual Study (1-3). Competency: The ability to identify, research, and report on a special problem of interest to the student. Subject to approval of program advisor.

EVT 4920 Group Training and Development (3). Competency: Demonstrates the knowledge and skills necessary to design, prepare, conduct, and evaluate group training and development programs. Prerequisite: Permission of instructor.

EVT 4931L Special Topica (1-3). Competency: Analyzes and utilizes recent developments related to problems, practices, programs, and methodologies in organizational settings. Prerequisite: Permission of instructor.

EVT 4940 Special Teaching Laboratory: Vocational Industrial Education and Technical Education (3). Competency: Knowledge of institutional structure, organization, policies, and roles of school personnel, with actual teaching experience in areas of specialization. Prerequisites: EDG 3321, EDG 3322.

EVT 4941 Student Teaching: Vocational Industrial Education and Technical Education (9). Competency: Utilization of instructional knowledge, attitudes, and skills in a variety of instructional situations in the vocational educational setting. Prerequisites: EVT 4940, EVT 4311 for Health Education Majors.

EVT 4942C Internship: Training and Development (3). Competency: Application and relinement of competencies in training and development in non-public school settings. Prerequisites: Admission to Organizational Training Certificate Program and permission of instructor.

EVT 4946 Field Experience: Technical Updating (3). Competency: The identification and acquisition of current technical knowledge and skills in an occupational area. Prerequisite: Vocational certification.

EVT 4949 Supervised Occupational Experiences (3-9). Competency: Occupational skill developed via field based work-experience in industry, business, or a government agency in the occupation in which the student is preparing to teach.

EVT 4990C Credit by Examination (3-9). Competency: Technical knowledge and skills in an occupational area such as trade, industry, health and technology, as certified by recognized prolessional examinations such as the National Occupational Competency Test. Credits cannot be used in lieu of upper division professional program courses.

EVT 5078 Technical Education in American Society (3). Competency: Knowledge of the basic role and current status of technical education in an industrial democracy.

EVT 5156 Teaching Career Related Activities (3). Competency: Integration and articulation of career concepts and activities with regular curriculum.

EVT 5168 Curriculum Development in Vocational Education (3), Competency: Basic knowledge and skill in analyzing, planning, organizing, and developing curriculum in an area of specialization.

EVT 5255 Cooperative Vocational Education Programs (3). Competency: Knowledge and skill in the basic philosophy, principles, processes, and procedures of the cooperative method in vocational and technical education.

EVT 5265 Supervision and Coordination of Vocational Education Programs (3). Competency: Knowledge and skill in the supervision of personnel and the coordination of work to achieve institutional goals.

EVT 5315 Improvement of Teaching Strategies in Health Occupations and Nursing Education (3). Competency: Knowledge and skills in methods of teaching and clinical performance evaluation appropriate to the health field and development of teaching. Prerequisite: Permission of instructor.

EVT 5317 Occupational Analyses in Health Occupations and Nursing Education (3). Competency: Analysis of current trends in area of health specialty and their application to teaching learning situations in health occupations education. Prerequisites: Currently teaching, permission of instructor and professional liability insurance.

EVT 5369 Educational Media (3). Competency: Knowledge and skill in selecting, developing, and utilizing instructional media forms to communicate or demonstrate concepts.

EVT 5503 Introduction to Vocational Special Needs Education (3). Competency: Knowledge of historical developments, legislation, instructional strategies, and program alternatives required to instruct special needs students in vocationally related environments.

EVT 5505 Vocational Laboratory Activities for Teachers of the Handicapped (3). Competency: The use of projects, tools, materials and equipment to facilitate training the occupationally handicapped, physically handicapped, and mentally retarded. Approved for certification for teachers of the mentally retarded.

EVT 5650 Trends and Issues In Vocational Education (3). Competency: A knowledge of the basic philosophical and curricular trends and issues in vocational-technical education at the international, national, state, and local levels.

EVT 5664 Community Relations and Resources for Vocational Education (3). Competency: Knowledge and skill in developing and utilizing community resources and establishing public relations procedures and practices to implement vocational education programs.

EVT 5695 International Comparative Vocational Education (3). Competency Skill and knowledge in comparison of vocational education in the United States in terms of purposes, systems, and problems with those of selected foreign countries.

EVT 5769 Evaluation in Vocational and Technical Education (3). Competency: Knowledge and skills in the use of tests and measurements, to evaluate teaching and learning effectivenoss and the validity of objectives

EVT 5905 Individual Study (1-3). Competency: The ability to identify,

research, and report on a special problem of interest to the student. Subject to approval of program advisor.

EVT 5925 Workshop In Vocational Education (1-6). Competency: Selected competencies related to instructional and technical areas.

EVT 5927 Workshop In Health Occupations Education (1-3). Competency: Selected competencies related to Health Occupations Education.

EVT 6264 Administration of Vocational Education Programs (3). Competency: Knowledge of the principles, practices, functions, and roles of administration in the operation of vocational education programs.

EVT 6267 Program Planning in Vocational Education (3). Competency Knowledge and skill necessary to determine vocational program feasibility and implementation of new programs. Prerequisite: Graduate standing.

EVT 6318 Issues in Health
Occupations and Nursing Education.
(3). Competency: Identification and
examination of current issues in Health
Occupations and Nursing Education.
Prerequisites: Currently teaching,
permission of instructor.

EVT 6359 Vocational Education in a Multicultural Setting (3). Competency: Knowledge and skill in developing and modifying vocational education programs, materials, and practices for a multicultural setting. Prerequisite: Graduate standing.

EVT 6760 Research in Vocational Education (3). Competency: Knowledge and skill in identifying, defining, collecting, analyzing, and synthesizing research-related problems in vocational and adult education. Prerequisite Graduate standing.

EVT 6790 Program Evaluation in Vocational Technical Education (3). Competency: Knowledge and skill needed to conduct a systematic evaluation of vocational-technical education programs. Prerequisites Graduate standing and EDF 5432 or equivalent.

EVT 6925 Graduate Workshop In Vocational Education (1-6). Competency Selected competencies related to professional and program areas

EVT 6930 Seminar in Vocational Education (3), Competency The

application of knowledge and skills to solve special instructional, curricular and/or administrative and supervisory problems and issues in vocational education. Prerequisite: Graduate standing.

EVT 6946 Supervised Field Experience (3-6). Competency: Application and refinement of competencies in either classroom, laboratory, or administration and supervision, via school-based field expenences. Placement is subject to approval of program leader. Prerequisitie: Graduate standing.

EVT 6947 Internship in Vocational Education (3). Competency: Knowledge and skill in a new leadership setting, relative to the student's selected area of emphasis. Prerequisite: Graduate standing.

FAD 2230 Family Life Cycle (3). Study of the characteristics, problems, potentials, and adjustments unique to the various stages of the family life cycle, including ethnic and cultural influences on family life patterns includes field component with community agencies serving families

FAD 3253 Parenting (3). Overview of changing concepts of parenthood and childhood. Explores contemporary issues concerning parenting with emphasis on maximizing human potential of parents and children. Open to non-majors . Recommended prerequisite: DEP 3001

FAD 4340/5341 Family Development: Adulthood and Aging (3). Extension of the study of developmental patterns with emphasis on physical, intellectual, social, and emotional influences with particular emphasis on the family and/or family substitute. Graduate students will have additional requirements.

FAD 4800 Management of Human Care Programs (3). Organization, management, and administration of programs providing care services traditionally met within the family such as child care and day care for the elderly Emphasis on use of family members and community resources for program enrichment

FAD 4940 Human Development Practicum (2-3). Experience in observing and working with individuals in one or more phases of the human life cycle. Students may select a day care center, public school, nursing home, hospital, or other community service agency. Prerequisites. CHD 3220, 4210, FAD 2230, or equivalent. FAD 5255 Parent-Child Interaction (3). Effects of varying environments on members of households, interpersonal relationships, family values, life style, and interaction between members.

FAD 5260 Family Development (3). Dynamics of lamily interaction and structure, including analysis of socioeconomic and cultural influences, crisis-producing situations, and current issues and trends affecting the family unit.

FAD 5450 Human Sexuality (3). Provides a cognitive overview of human sexuality. Main emphasis is on the affective dimension - an exploration of attitudes and values related to sexuality.

FLE 4151 Bilingual School Curriculum and Organization (3). Development of a theoretical understanding of the nature of a bilingualism, a rationale for bilingual education, and a set of principles and skills for organizing, bilingual-bicultural curriculum experiences in the elementary school. Prerequisites: EDF 3723, EDH 3321, EDG 3322.

FLE 4375 Special Teaching
Laboratory: Modern Languages (3).
Development of instructional skills,
techniques, and strategies for teaching
modern languages in the junior and
senior high school. Prerequisites: EDF
3723, EDG 3321, and EDG 3322. Field
experience required. Minimum
prerequisite or corequisite of 14 hours in
subject matter specialization.

FLE 4870 Teaching Spanish as a Second Language (3). Development of instructional skills, techniques, and strategies for teaching Spanish to non-native speakers of Spanish in the elementary school. Prerequisites: EDF 3723, EDG 3321, EDG 3322, and Spanish proficiency

FLE 4871 Teaching Spanish to Speakers of Spanish (3). Development of understandings and teaching skills needed in presenting integrated nonofficial language arts programs which would consider factors of languages and cultures in contrast. Prerequisites: EDF 3723, EDG 3321, EDG 3322, and Spanish proficiency.

FLE 4942 Student Teaching (9).
Supervised teaching in a junior or senior high school. Prerequisites: EDF 3723, EDG 3321, EDG 3322, RED 4325, appropriate Special Teaching Laboratory, and appropriate number of hours in subject matter specialization.

FLE 5895 Bilingual Education Teaching Methodologies (3). Examination of various approaches to bilingual education, including specific school and classroom organizations. Development of specific instructional strategies for bilingual students. Issues in elementary, secondary, adult, vocational, and special education will also be addressed.

FLE 5908 Individual Study (1-3)(ARR). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor.

FLE 5945 Practicum: Modern Languages (6). Supervised teaching in a junior or senior high school. Prerequisites: Admission to the Alternate Track Master's Program and completion of prerequisite coursework in education and subject matter area.

FLE 6336 Methods of Teaching Modern Language (3). A modern study of language learning and teaching from the theoretical and practical points of view, including the evaluation and development of techniques and materials for second language teaching. Prerequisite: LIN 3010 or ENG 3500 or equivalent.

FLE 6925 Workshop in Second Language Education (1-3)(ARR). Production and application of materials and techniques in second language education in a laboratory or field setting.

FLE 6938 SemInar In Second Language Teating (3). Advanced study and research on current topics and issues in the field of second language education. Variety of topics to include language testing, language proficiency, language and society, bilingual-bicultural education, and error analysis and the language learner.

HEE 3302 Home Economics
Educational Planning (3).
Competency: Development and
adaptation of curriculum and strategies
for the presentation of vocational home
economics content in a variety of
educational settings. Subject to approval
of instructor.

HEE 4104 Instruction in Vocational Home Economics (3). Competency: Ability to apply educational principles, practices, and techniques to teaching home economics in varied educational environments. Prerequisite: EDG 3321. Subject to approval of instructor.

HEE 4941 Student Teaching in Home Economics Education (9). Competency: The utilization of instructional knowledge, attitudes, and skills in vocational home economics education instructional situations. Prerequisites: HEE 3302, HEE 4104, HEE 4944.

HEE 4944 Special Teaching Laboratory Home Economics (3). Competency: Knowledge of the educational institution, and utilization of teaching skills, via mini-teaching experiences within areas of home economics in selected institutions. Prerequisites: EDG 3321, EDG 3322.

HEE 5335 Trends in Vocational Home Economics Education (3). Competency: Knowledge of current social, economic, and educational issues affecting the field of vocational home economics.

HEE 5360 Teaching Child Development (3). Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies.

HEE 5361 Teaching Consumer Education and Family Economics (3). Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies.

HEE 5362 Teaching Clothling and Textilles (3). Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies.

HEE 5363 Teaching Family Life Education (3). Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies.

HEE 5364 Teaching Housing and Home Furnishings (3). Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies.

HEE 5365 Teaching Food and Nutrition (3). Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies.

HEE 5905 Individual Study (1-3). Competency: The ability to identify, research, and report on a special problem in vocational home economics. Subject to approval of program advisor.

HEE 5927 Special Workshop Home Economics Education (1-3). Competency: Skill in developing, organizing, teaching, evaluating, and administering programs related to specified aspects of home economics education.

HEE 6156 Teaching Home Economics in Diverse Educational Environmenta (3). Competency: Knowledge of current and evolving strategies, programs, and materials to teach and evaluate home economics.

HEE 6551 Supervision of Student Teachers in Home Economics (3). Competency: Skill in teaching, observing, and evaluating student teachers in vocational home economics.

HEE 6915 Research In Home Economics Education (3). Competency: The analysis and application of research pertaining to philosophy, curriculum, evaluation, and leacher education in home economics. Subject to approval of program advisor.

HEE 6928 Special Workshop In Home Economics Education (1-3). Competency: Skill in developing, organizing, teaching, evaluating, and administering programs related to specific aspects of home economics education.

HEE 6937 Seminer in Home Economics Education (3). Competency: Application of selected instructional, curricular, and/or administrative principles and practices to the solution of problems of special interest to vocational home economics educators. Subject to approval of program advisor.

HHD 3151 Housing: Shelter and Consumer (3). Shelter alternatives and their effect on family and community Analysis of types of housing and financing plans currently available to consumers.

HHD 4420 Home Furnishings and Equipment (4). Principles involved in the construction, selection, operation, and care of furnishings and equipment and their relationship to their environmental use.

HLP 3013 Health and Physical Education for Children (3). Designed to provide competencies necessary for the development and implementation of programs concerning use of leisure time and maintenance of personal health and family life. Prerequisites EDF 3723, EDG 3321, EDG 3322.

HME 4230 Management of Personal and Family Resources (3). Application of management principles to personal

and family decisions including human and non-human resources. Opportunity for community observation of management decisions made by persons of various ethnic groups and/or life styles and an analysis of the effect of these decisions on family relationships and personal success.

HME 5225 Problems of Home Management In Contemporary Soclety (3). Influence of diversified cultural impact on management life styles, with emphasis on problems of management resources. Discussion of problems related to single-parent homes, retirement, poverty, death, working parents, migrant families, and other human situations. Prerequisites: COA 3410, HME 4230, or permission of instructor.

HME 5255/EEX 5771 Independent Living for the Handicapped (3). Explores the special home and personal living skills required in order for persons with mental and physical limitations to achieve their maximum independence. Suitable for students in psychoeducational services, health, physical education and recreation, social work, home economics, or anyone planning to work with the elderly or handicapped. Approved for certification for teachers of the mentally retarded.

HOE 4940 Career Traineeship In Home Economics (3-6). Community based, supervised practical experience in a home economics-related career, to provide opportunity for career exploration in a chosen field, and application of knowledge to practical situations. Prerequisite: Permission of instructor.

LAE 4314 Communication Skills II (3). Designed to develop and reline those teaching competencies which allow the student to perform effectively as a teacher of children, using language arts activities to enhance communications skills. Prerequisites: EDF 3723, EDG 3321, EDG 3322, RED 4150.

LAE 4335 Special Teaching Laboratory English (3). Development of instructional skills, techniques, and strategies for teaching English in the junior and senior high school. Prorequisites: EDF 3723, EDG 3321, and EDG 3322 Field experience required. Minimum prerequisite or corequisite of 16-20 hours in subject matter specialization.

LAE 4464 Experiencing Adolescent Literature in the Junior-Senior High School (3). An examination of the most familiar types of literature found in the secondary school English curriculum today; and the development of strategies for organizing and providing a variety of literary experiences of students who differ in intellectual abilities and literary tastes.

LAE 4851 Teaching English as a Second Language (3). Development of instructional skills, techniques, and strategies for teaching English as a second language in the elementary school, Prerequisites: EDF 3723, EDG 3321, EDG 3322, and English proficiency.

LAE 4942 Student Teaching (9). Supervised teaching in a junior or senior high school. Prerequisites: EDF 3723, EDG 3321, EDG 3322, RED 4325, appropriate Special Teaching Laboratory, and appropriate number of hours in subject matter specialization.

LAE 5414 Children's Literature (3). Designed to develop a critical analysis of the purposes, strategies for teaching, and evaluation of literature for children. Prerequisites: RED 4150 and LAE 4314, or their equivalent.

LAE 5908 Individual Study (1-3)(ARR). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor.

LAE 5945 Practicum: English Education (6). Supervised teaching in a junior or senior high school. Prerequisites: Admission to the Alternate Track Master's Program and completion of prerequisite coursework in education and subject matter area.

LAE 6305 Instruction in Language Arts (Early Childhood) (3). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research in preschool and early childhood education

LAE 6355 Instruction in Language Arts (Elementary) (3). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research in elementary education.

LAE 6339 Teaching English in the Secondary School (3). Analysis of mothods, programs, and materials for teaching English in the junior and senior high school, and development of teaching skills.

LAE 6815 Computers in English and the Language Arts (3). Covers the basics needed to integrate computers in teaching language arts. Emphasizes selecting and learning to use software to meet objectives in language, literature, and composition. Corequisite: English major or equivalent.

LAE 6925-26 Workshop In English Education (1-3)(ARR). Production and application of materials and techniques in English education in a laboratory or field setting.

LAE 6935 Seminar in English Education (3). Designed for advanced students, the readings and discussions will focus on policy issues and recent research in English education. Though primarily for experienced English teachers and supervisors, the course is open to administrators and others, with the consent of the instructor.

LAE 7938 Doctoral Seminar in English Education (3). Advanced doctoral study of current theories and research related to English education. Prerequisites: LAE 6935, EDF 6486.

LEI 3000 Lelsure and Recreation in America (3). An introduction to the fundamental concepts of leisure and recreation and their roles in American culture. The class will be structured around a lecture-discussion format.

LEI 3437 Program Development In Parks and Recreation Management (3). Students will attain competencies in developing objectives, planning a program, and implementing and administering the program.

LEI 3524 Personnel Management In Parks and Recreation (3). After a study of human interaction in a management setting, students will demonstrate competencies necessary for hiring staff, conducting group dynamics and communicating to the public.

LEI 3542 Principles of Park and Recreation Management (3). An exploration of the field of recreation and parks, including career areas. Students will be expected to demonstrate an understanding of management responsibilities and supervisory level principles and theory.

LEI 3624 Turf Grass Management (3). A practical approach to the care and maintenance of special grasses such as those found on golf courses and other recreational facilities.

LEI 3630 Care and Maintenance of Grounds (3). A study of procedures for maintaining outdoor facilities. Students will be expected to display competence in proper maintenance of areas normally found in parks and recreation centers.

LEI 4590 Seminar in Parks and Recreation Management (3). A discussion of current problems, issues and trends in parks and recreation management, which will help the student develop those competencies necessary to deal with everyday aspects of particular programs.

LEI 4700 Programming for Special Populations (3). Principles and practices in planning and implementing programs in special community-group settings. Special emphasis will be placed on a systematic approach through problem-solving techniques.

LEI 4940 Internship I (9). An on-the-job training program designed to enable students to develop those competencies which can only be gained from practical experience.

LEI 4941 Internship II (12). Advanced undergraduate supervised internship in a parks and recreation organization. Prerequisites: LEI 4940 and permission of instructor.

LEI 5440 Program Development In Parks and Recreation (3). The development of specific programs in parks and recreation with emphasis on special programs for young children, retardates, handicapped persons, and the elderly.

LEI 5510 Program AdmInistration in Parks and Recreation (3). A detailed analysis of administrative procedures and responsibilities in connection with parks and recreation facilities and personnel.

LEI 5595 Seminar In Parks and Recreation Management (3). A discussion of current problems, issues, and trends in administration of parks and recreation programs.

LEI 5605 Physical and Social Bases of Parks and Recreation Planning (3). Concentration on major phases of predesign, design, development, actualization of park and recreation facilities. Course will explore funding, budget, site selection, layout, and maintenance.

LEI 5907 Individual Study in Parks and Recreation Management (3). An opportunity for individuals interested in various aspects of park and recreation administration to work on their own under the close supervision of an advisor. Permission of the instructor and department chairperson is required.

LEI 6922 Supervised Field Experiences in Parks and Recreation Administration (3-9). A practical experience for individuals interested in administrative responsibilities. Permission of the instructor and Department Chairperson required.

MAE 4312 Inquiry in Mathematics in the Elementary School (3). Designed to develop and refine those teaching competencies which allow the student to perform effectively as a teacher of children, using mathematics as a mode of inquiry. Prerequisites: EDF 3723, EDG 3321 EDG 3322, MAE 4810 and MAE 4811, or equivalent.

MAE 4333C Special Teaching Laboratory: Mathematics (3). Development of instructional skills, techniques, and strategies for teaching mathematics in the junior and senior high school. Prerequisites: EDF 3723, EDG 3321, and EDG 3322. Field experience required. Minimum prerequisite or corequisite of 24 hours in subject matter specialization, including MTG 3212, STA 3321, COP 3112, or approved electives; permission of instructor required.

MAE 4942 Student Teaching (9). Supervised teaching in a junior or senior high school. Prerequisites: EDF 3723, EDG 3321, EDG 3322, RED 4325, appropriate Special Teaching Laboratory, and appropriate number of hours in subject matter specialization.

MAE 5555 Diagnosis and Remediation in Mathematics (3). Strategies for studying symptoms, causes, and consequences of difficulties experienced by children in elementary school mathematics. Includes supervised case study and theoretical models. Prerequisite: MAE 4312.

MAE 5648 Computers In Mathematics Education (3). Examines the use of computers (microcomputers) in secondary school mathematics. Designing, evaluating, and using varied types of programs in mathematics classes. Leaming to use computers to design mathematics curriculum.

MAE 5908 Individual Study (1-3). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor.

MAE 5945 Practicum: Mathematics Education (6). Supervised teaching in a junior or senior high school. Prerequisites: Admission to the Alternate Track Master's Program and completion of prerequisite coursework in education and subject matter area. MAE 6305 Instruction in Mathematics (Early Childhood) (3). Refinement of skills related to program development, methods of teaching, selection of materials and review of research, in preschool and early childhood education.

MAE 6318 Instruction in Mathematics (Elementary) (3). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education.

MAE 6336 Teaching Mathematics in the Secondary School (3). Analysis of methods, programs, and materials for teaching mathematics in the junior and senior high school, and development of teaching skills. Prerequisities: Undergraduate secondary math methods and permission of instructor.

MAE 6645C Workshop on Metric Education (1-3). A workshop on Metric Education: trends, teaching strategies, programs, and materials.

MAE 6899 Seminar in Mathematics Education (3). Designed to provide the advanced student with deeper understanding of the current state of mathematics education. Major emphasis is on current trends and curriculum projects on the national and international levels, as well as evaluation and research related to these trends.

MAE 6923 Workshop: Elementary School Mathematics (3). Production and application of materials and strategies for teaching mathematics in elementary and middle schools.

MAE 6925-28 Workshop In Mathematics Education (1-3). Production and application of materials and techniques in math education in a laboratory or field setting

MAE 7938 Doctoral Seminar in Mathematica Education (3). Advanced doctoral study of current theories and research related to mathematics education. Prerequisites EDF 6486, minimum of 3 doctoral level math courses.

MUE 3313 Experiencing Music in the Elementary School (3). Designed to provide the student with competencies necessary for the development and implementation of music experiences in the elementary curriculum. Prerequisite: Music course.

MUE 3332 Special Teaching Laboratory I (3). Development of instructional skills, techniques, and strategies fer school music performance organizations through laboratory and field experiences. Prerequisites: EDF 3723, EDG 3321, EDG 3322.

MUE 4341 Special Teaching

Laboratory II (3). Field-based methods, materials and instructional skills course, which prepares students for internship in an elementary and secondary school setting. Prerequisites: EDF 3723, EDG 3321, EDG 3322, MUE 3332.

MUE 4940 Student Teaching (9). Supervised teaching in an elementary school (5 weeks) and a secondary school (5 weeks). Prerequisites: EDF 3723, EDG 3321, EDG 3322; MUE 3332, MUE 4341; RED 4325, and 20 semester hours of the coursework required in music.

MUE 5907 Directed Study in Music Education (1-3). Individual investigation in one or more areas of music education.

MUE 5928 Workshop In Music (1-3). Applications of materials and techniques in music in a laboratory or field setting.

MUE 5945 Practicum: Music Education (6). Supervised teaching. Prerequisities: Admission to the Alternate Track Master's Program and completion of prerequisite coursework in education and the subject matter area.

MUE 6305 Instruction in Music (Early Childhood) (3). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in preschool and early childhood education.

MUE 6316 Instruction in Music (Elementary) (3). Relinement of skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education.

MUE 6349 Methodology of Music Teaching (3). Analysis of methods, programs and materials for teaching music in the public schools, and development of music pedagogy skills

MUE 6815 Acousticel and Paychological Foundations of Music Behavior (3). An overview of acoustical, physiological and psychological foundations of music as it influences human behavior. The course will deal with musical acoustics, the anatomy of the human hearing apparatus, perception, reactions, personality, mood and powers of discrimination.

MUE 6925-28 Workshop In Music Education (1-3), Applications of materials and techniques in music education in a laboratory or field setting.

MUE 6938 Seminar in Music Education (3). Seminar in music programs in the United States and other countries, and current issues and problems facing the music educator.

PEL 1111 Beginning Bowling (1).
Designed to develop basic skills and
knowledge of bowling. Emphasis is on
participation, fitness, and skill
development and knowledge of bowling
as a recreational activity. This course
will not count towards graduation except
for Physical Education majors.

PEL 1121 Beginning Golf (1).
Designed to develop basic skills and knowledge of golf. Emphasis is on participation, fitness, skill development, and knowledge of golf as a recreational activity. This course will not count towards graduation except for Physical Education majors.

PEL 1211 BegInning Softball (1).
Designed to develop basic skills and
knowledge of softball. Emphasis on
participation, fitness, and skill
development and knowledge of softball
as a recreational activity. This course
will not count towards graduation except
for Physical Education majors.

PEL 1341 Beginning Tennis (1). Course to include knowledge and instruction of fundamental skills in tennis, rules, techniques, and playing strategy. This course will not count towards graduation except for Physical Education majors.

PEL 1346 BegInnIng Badminton (1). Course to include knowledge and instruction of fundamental skills in badminton rules, techniques, and playing strategies This course will not count towards graduation except for Physical Education majors.

PEL 1441 Beginning Racquetbati (1). Designed to develop skills and knowledge of racquetball. Emphasis is on participation, fitness, and skill development and knowledge of racquetball as a recreational activity. This course will not count towards graduation except for Physical Education majors.

PEL 1511 Soccer (1). Presents basic techniques, tactical considerations, and several theoretical aspects of the game Emphasis is on devoloping litness through participation (Pass/Fail grade only). This course will not count towards graduation except for Physical Education majors.

PEL 2321 Beginning Volleyball (1). Designed to develop basic skills and knowledge of volleyball. Emphasis is on participation, fitness, and skill development and knowledge of volleyball. This course will not count towards graduation except for Physical Education majors.

PEL 2621 BagInning Basketball (1). Designed to develop basic skills and knowledge of basketball. Emphasis is on development of skill, participation, fitness, and knowledge of basketball as a recreational activity. This course will not count toward graduation except for Physical Education majors.

PEM 1104 Conditioning (1). This course is designed to promote attitudes, understandings, and skills related to the development and maintenance of the health and performance related components of physical fitness. This course will not count towards graduation except for Physical Education majors.

PEM 1141 Aerobic Fitness (1). This course is designed to provide students with the skills and knowledge necessary to achieve and maintain desirable state of aerobic fitness. This course will not count towards graduation except for Physical Education majors.

PEM 1405 Self Defense for Women (1). Female students will be taught physical and mental techniques to delend themselves from personal attack. This course will not count towards graduation except for Physical Education majors.

PEM 1441 Karate (1). The basic Karate techniques and advanced application of these techniques will be taught. The class goal after completion of instruction will be certification as yellow belt first degree for qualified students (Pass/Fail grade only). This course will not count towards graduation except for Physical Education majors.

PEM 2101 Foundations of Fitness (3). Presents concepts related to the evaluation, development, and maintenance of fitness, including principles of training, weight control and stress reduction. Provides instruction in lifetime sports.

PEM 2131 Nautilus Weight Training (1). Exercise on Nautilus equipment to improve cardio-respiratory endurance, muscular strength, and flexibility. After being taught how to use this equipment and litness goals are established, each student will be monitored, via time controlled workouts, to improve the level of physical wellness. This course will not count towards graduation except for Physical Education majors.

PEN 1121 Beginning Swimming (1). The course will cover the beginning swimming skills as described in the certified American Red Cross beginning swimmers program. This course will not count towards graduation except for Physical Education majors.

PEN 1122 Intermediate Swimming (1). The course will cover the intermediate swimming skills as described in the certified American Red Cross intermediate swimmers program. Prerequisite: PEN 1121 or permission of instructor. This course will not count towards graduation except for Physical Education majors.

PEN 2113 Life Saving (2). Successful completion of this course will lead to American Red Cross swimming certification in life saving. Prerequisite: Completion of intermediate swimming skills. This course will not count towards graduation except for Physical Education majors.

PEO 4004 Coaching Sports (3). Students will examine the philosophy, organization, and skills necessary for coaching interscholastic sports in an educational environment.

PEO 4041 Games in the Elementary and Middle School (3). The study of the scope, structure, and sequence of games in Grades K-8. Emphasis on educational games and skill progressions for selected sports.

PEP 3205 Gymnastics in the Elementary and Middle School (3). The study of the scope, structure, and sequence of the gymnastics program in grades K-8. Emphasis on educational gymnastics and simple formal gymnastics.

PEP 4102 Methods and Curriculum for Fitness Development Classes (3). Includes content and methods for teaching activity/theory classes in which the primary emphasis is the development of litness. Prerequisites: PET 3351 and EDG 3321.

PEP 5115 Fitness Instruction (3). The course prepares the student for the American College of Sports Medicine's Fitness Instructor Certification examination. Prerequisite: PET 3351.

PEP 5116 Exercise Specialists (3). The course prepares the student for the American College of Sports Medicine's Exercise Specialists Certification Examination. Prerequisites: PET 3351 and PET 5387.

PEP 5117 Fitness for Older Adults (3). The course explores the value of

physical activity for improving the physical and mental well being of older adults. Emphasis is placed on exercise prescription and supervision of programs for those working with older adults. Prerequisite: PET 3351.

PEQ 2115 Water Safety Instructor (2). Successful completion of this course will lead to American Red Cross swimming certification as Water Safety Instructor. Prerequisite: Red Cross certification in life saving. This course will not count towards graduation except for Physical Education majors.

PET 3310 Kinesiology (3). Students study the anatomical and mechanical principles of movement and apply this knowledge in the analysis of physical education and athletic sport activities. (Includes laboratory class periods.) Prerequisite: Anatomy.

PET 3351 Exercise Physiology (3). The study of the immediate physiological responses to exercise and the long-term adaptations that occur as a result of training.

PET 3640C Adapted Physical Education (3). Students gain knowledge of scientific factors and develop and implement physical education programs for special populations. Laboratory and Field Experience required.

PET 3730 Physical Education in the Middle School (3). The study of the scope, structure, and sequence of the middle school physical education curriculum. Emphasis on philosophy, teaching strategies, and curriculum development.

PET 4035 Motor Learning and Development (3). Examination of the developmental aspects of movement and the factors influencing the acquisition and performance of motor skills.

PET 4230C Motor Learning (3).
Students will demonstrate knowledge and application of the physiological and psychological factors affecting motor skill acquisition and performance.

PET 4383 Evaluation in Exercise Physiology (3). The course prepares students to utilize and select or construct appropriate instruments for the assessment of fitness. Prerequisite: PET 3351.

PET 4401 Organization and Administration of Physical Education for Grades 6-12 (3). An analysis of the organizational and administrative aspects of physical education programs for grades 6-12. PET 4442 Physical Education in the Secondary School (3). Students will study methods, philosophy, and curriculum for physical education in the secondary school. Field experiences required in addition to class work. Prerequisites: PET 3724, EDG 3321, EDG 3321L.

PET 4464 Special Teaching Lab: Physical Education for Grades K-8 (3). Emphasis on development of comprehensive physical education programs for grades K-8. Includes development of curriculum materials, analysis of teacher behaviors, development of teaching skills, and evaluation techniques. Prerequisites: DAE 3371, PEP 3205, PEO 4041, EDG 3321, EDF 3827.

PET 4510 Evaluation in Physical Education (3). Students will demonstrate competencies in motor skill testing, grading, and analysis of written test scores necessary for successful teaching in physical education.

PET 4622C Athletic Injuries (3). Students will demonstrate knowledge of the proper care and prevention of athletic injuries through the application of acceptable training techniques.

PET 4940 Internahlp In Exercise Physiology: Undergraduate (3). Supervised clinical experience designed to offer the student experience in graded exercise testing and exercise leadership. Prerequisites: PET 3351, PET 5387, and PET 5115.

PET 4945L Student Teaching (9)(F,S). During the student's internship, the student will complete written assignments and demonstrate those competencies which are characteristic of a competent physical education teachor.

PET 4946 Sports Management Internship (6-9). Students must complete a supervised sports management internship program in an approved business or recreation setting. Prerequisite: Completion of required program courses

PET 5135 History of Physical Education and Sport (3). Students will study the history of sport and will take pert in writing their own review of sport from a chosen time in history

PET 5216 Sports Psychology (3). Course will include an enalysis of psychological variables which might influence physical performance. Topics to be discussed include personality development, motivation, anxiety, tension, stross, aggression, attribution

theory, and social facilitation. The course is intended for prospective physical educators and others interested in motor performance.

PET 5238C Perceptual Motor Learning (3). Students will demonstrate knowledge and understanding of various approaches to, and theories of, perceptual motor learning, with special emphasis in physical education.

Perceptual motor tasks will be performed as well as taught by the students.

PET 5256C Sociology of Sport (3). Students will demonstrate a thorough understanding of the sociological bases of sport and will actively engage in a field study involving a particular phase of sport and society.

PET 5387 Exercise Test Technology (3). The course prepares the student for the American College of Sports Medicine's Exercise Test Technology Certification examination. Prerequisite: PET 3351.

PET 5426 Curriculum Development in Physical Education (3). Students will develop their own curricula after examining and discussing modern curriculum theory. A problem-solving approach will be employed as students test their programs at various grade levels in the public schools.

PET 5436 Physical Education Curriculum In the Elementary School (3). Examination of objectives, content, methods of teaching, and evaluative techniques in elementary school physical education. Emphasis on curriculum development and refinement of teaching skills.

PET 5476 Sports Management and Administration (3). Examination of skills and knowledge required in the management and administration of sports-related careers in athletics, recreation, or industry Prerequisites: Basic management courses: MAN 3025, PAD 4432 or equivalent

PET 5606C Sports Medicine (3). Advanced conditioning techniques, strength and cardio-vascular endurance training are presented. The prevention and treatment of overuse injuries are also emphasized. Prerequisite PET 3351

PET 5908 Individual Study (1-3). Students will work independently on a topic concerning some phase of physical education or sport under the guidance of a faculty member. Registration is by permission of advisor PET 5925 Workshop In Physical Education (1-3). Production and or application of materials and techniques for physical education in a classroom and or field setting.

PET 5931 Special Topics in Exercise Physiology (1-3). Designed to present contemporary issues and practices in exercise physiology. Prerequisite: PET 3360.

PET 5936 Special Topics In Physical Education (1-3). Designed to present contemporary issues and practices in physical education and sport.

PET 6597C Survey of Research In Physical Education (3). Following a survey of research in physical education, students will demonstrate competencies in applying this knowledge to teaching situations in the public schools.

PET 6775 Health Fitness Director (3). Designed to prepare the student for ACSM's Health Fitness Director certification. Prerequisite: PET 3351, PET 5387, PEP 5115, and PEP 5116.

PET 6785 Exercise Program Director (3). Designed to prepare the student for ACSM's Exercise Program Director certification examination. Prerequisite: PET 3351, PET 5387, PEP 5115, and PEP 5116.

PET 6925-27 Workshop In Physical Education (1-3). Production and or application of materials and techniques for physical education in a classroom and or field setting.

PET 6932 Seminar in Physical Education (3). Students will participate in the exploration, examination, and discussion of problems, issues, and trends in physical education and sport

PET 6940 Internship in Exercise Physiology: Graduate (3-6). Clinical experience, supervised by physician, designed to provide the student with competence in exercise prescription and loadership in provontivo and rehabilitative outpatient exercise programs. Prerequisites: PET 5387, PEP 5115, and PEP 5116

PET 6944 Supervised Field Experience (3-9). Students may use this course to beceme involved in an indepth study, research project, or any one of a variety of other activities, under the guidance of a laculty member

RED 4150 Communication Skills I (3). Designed to develop and refine those toaching competencies which allow the

student to perform effectively as a teacher of reading. Prerequisite: Permission of instructor required.

RED 4311 Communication Skills III (3). Designed to implement and expand upon the teaching competencies developed in LAE 4314 and RED 4150, in a classroom management practicum. Prerequisites: EDF 3723, EDG 3321, EDG 3322, LAE 4341.

RED 4325 Special Teaching Laboratory: Reading (3). Development of instructional skills, techniques, and strategies for teaching reading in the junior and senior high school. Attention to attaining competence in subjectmatter related reading skills.

RED 4925 Workshop In Reading Education (1-3). An opportunity for students to continue to develop competency in a specified area of reading education. No prerequisites. School of Education

RED 5447 Analysis and Production Reading Materials (3). Exploration, creation, and evaluation of basic reading materials, commercial and noncommercial. Prerequisite: RED 4150 or equivalent.

RED 5448C Teaching Reading by Computer (3). Evaluation and creation of computer programs for teaching reading in grades 4-12. No prior computer experience is required.

RED 5911 Individual Study in Reading (1-3). Individual investigation in the area of instruction. Permission of instructor required.

RED 6155 Instruction in Reading (Elementary) (3). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research in elementary education.

RED 6247 Organization and Supervision of Reading Program (3). The organization and supervision of reading programs; problems of organization and supervision; continuity of school-wide programs, emphasis on leadership responsibilities. Prerequisites: EDF 5481.

RED 6305 Instruction in Reeding (Early Childhood) (3). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in preschool and early childhood education.

RED 6336 Reading In the Content Areas (3). Strategies for developing the reading abilities of students in specific subject areas. Stresses vocabulary and comprehension development, study skills, library usage, reasoning, and motivating reading. Prerequisites: None.

RED 6338 High School Reading Programs (3). Designed to provide competencies for identifying, organizing, teaching, and evaluating secondary reading programs. Corrective and accelerated reading are emphasized. Prerequisite: RED 6155 or RED 6305.

RED 6515 Programs of Remediation in Reading (3). A course demonstrating corrective and remedial procedures; application of specific psychological, pedagogical, and psychotherapeutic techniques. Prerequisites: RED 6155 or 6305, RED 6546, or their equivalents.

RED 6546 Diagnosts of Reading Difficulty (3). Technique for analyzing and clarifying reading difficulties. Prerequisite: RED 6155 or 6305, or its equivalent.

RED 6747 Research in Reading (3). A course to study significant research in reading and research methodology. Involves planning and research in reading. Permission of instructor required. Perrequisite: EDF 5481.

RED 6805 Practicum In Reading (3). An analysis of reading difficulties through various teaching techniques and programs.

RED 6845 Clinical Procedures In Reading (3). Supervised experience, resulting in diagnosis, prescription and evaluation of particular children in a clinical setting. Prerequisites: RED 6515, RED 6546.

RED 6925 Workshop in Reeding (1-3). An opportunity for teachers to continue to develop competency in a specified area under the guidance of a specialist in selected fields in reading education.

RED 6926 Workshop in Reading and Lenguage Arts (1-3). Offers opportunities for elementary school teachers to increase their understanding of reading language arts instruction, K-6. Emphasis on integrating language arts into reading.

RED 6931 Seminar In Reading Education (3). An advanced master/ beginning doctoral course dealing with advances in the theory and practice of reading instruction. Prerequisites: Permission of instructor and RED 6747.

RED 6971 Thesis in Reading
Education (6), Design, implementation,

and written report of an original research investigation in reading education. Prerequisites: Advanced graduate standing and consent of instructor.

RED 7938 Doctoral Seminar in Reading Education (3). Advanced study in current theories and research related to reading education. Prerequisites: RED 6747, RED 6931, EDF 6486.

SCE 4310 Inquiry in Science in the Elementary School (3). Designed to develop and refine those teaching competencies which allow the student to perform effectively as a teacher of children, using science as a mode of inquiry. Prerequisites: EDF 3723, EDG 3321, EDG 3322, one Physical Science, one Biological Science.

SCE 4330 Special Teaching Laboratory: Science (3). Development of instructional skills, techniques and strategies for teaching biological and physical sciences in the junior and senior high schools. Prerequisites: EDF 3723, EDG 3321, and EDG 3322. Field experience required. Minimum prerequisite or corequisite of 16-20 hours in subject matter specialization.

SCE 4942 Student Teaching (12). Supervised teaching in a junior or senior high school, Prerequisites: EDF 3723, EDG 3321, EDG 3322, RED 4325, appropriate Special Teaching Laboratory, and appropriate number of hours in subject matter specialization.

SCE 4944 Student Teaching (9). Supervised teaching in a junior or senior high school. Prerequisites: EDF 3723, EDG 3321, EDG 3322, RED 4325, appropriate Special Teaching Laboratory, and appropriate number of hours in subject matter specialization.

SCE 5435 Secondary Science Laboratories: Methods & Materials (3). Increase the quantity and quality of laboratory experiences for secondary students by managing the laboratory safely, selecting appropriate activities, and evaluating student performance.

SCE 5905 Individual Study (1-3). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor.

SCE 5945 Practicum: Science Education (6), Supervised teaching in a junior or senior high school. Prerequisites: Admission to the Alternate Track Master's Program and completion of prerequisite coursework in education and subject matter area.

SCE 6141 Science Education in History (3). This course analyzes the impact of scientific, technological, and social advances upon curriculum and instruction in science education.

SCE 6245 Science Education for High Achieving Students (3), Program options, instructional designs and materials, and evaluation of gifted and other high achieving science students will be addressed.

SCE 6306 Instruction in Science (Early Childhood) (3). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in preschool and early childhood education.

SCE 6315 Instruction in Science (Elementery) (3). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education.

SCE 6635 Teaching Science in the Secondary School (3). Analysis of methods, programs, and materials for teaching science in the junior and senior high school, and development of teaching skills.

SCE 6637 Science Education and Community Resources (3). This course examines the utilization and cultivation of community resources to meet science education goals for various populations.

SCE 6745 Science Education Policy, Change, and School Improvement (3). Enhance ability to assume leadership in science school improvement by learning ways to (1) influence policy, (2) bring about change, and (3) increase personal satisfaction. Prerequisite: 5 years of teaching experience or permission of the instructor.

SCE 6925-26 Workshop In Science Education (1-3). Production and application of materials and techniques in science education in a laboratory or field setting.

SCE 6930 Workshop In Content, Methods, and Materials of Teaching Elementery Science (1-3). Focus on content, methods, and materials needed for teaching science in the elementary school, K-6.

SCE 6931 Special Topics in Science Education (3). An individual topic or limited number of topics not otherwise offered in the curriculum that facilitate science teaching in the elementary school will be solocted SCE 6933 Seminar in Science Education (3). Analysis of research trends and selected topics in science education. Mainly for graduate students in secondary science education. Individual needs and interests will determine the fine structure of the course content.

SCE 7165 Curriculum Development In Science Education (3). Analysis of theoretical basis of curriculum development in Science Education Evaluation of currently available material. Development and testing of science curriculum materials. Prerequisites: SCE 6933, EDF 6486.

SCE 7761 Research in Science Education (3). Application of research methodology to Science Education. Analysis of current research. Development of research proposal in Science Education. Conduct field study. Prerequisites: SCE 6933, EDF 6486, SCE 7165. Corequisite SCE 7938.

SCE 7938 Doctoral Seminar In Science Education (3). Advanced doctoral seminar in current theories and research related to science education. Prerequisites: SCE 6933, EDF 6486.

SPA 3000 Introduction to Lenguage Development and Communication Disorders (3). Skills in assessing and classroom programming for language development and for various speech and language disorders of children.

SPS 6191 Psycho-Educational
Assessment 1: Intellectual (3).
Competencies in the assessment of
intellectual ability and adaptive behavior
in children. Corequisite: SPS 6191L for
School Psychology majors. No
corequisite for other majors.

SPS 6191L Psycho-Educational
Assessment I: Lab (2). Practical skills
in the assessment of intellectual ability
and adaptive behavior in children.
Corequisite: SPS 6191.

SPS 6192 Psycho-Educational
Assessment II: Process (3).
Competencies in the assessment of
psycho-educational processes in
children and their relationship to
intellactual ability Coroquisite SPS
6192L for School Psychology majors No
corequisite for other majors
Prerequisite: SPS 6191.

SPS 6192L Psycho-Educetlonal
Assessment II: Lab (2), Practical skills
in the assessment of psycho-educational
processes in children Emphasis on
assessing disorders in the visual,
auditory, haptic, language, and sensory

integration areas. Corequisites SPS 6191, SPS-6191L.

SPS 6193 Psycho-Educational Assessment III: Behavior (3). Competencies in behavioral and personality assessment of students within the school setting. Emphasis on projective testing and behavioral observations. Corequisite: SPS 6193L. Prerequisites: SPS 6191. SPS 6192.

SPS 6193L Psycho-Educational
Assessment III: Lab (3), Practical skills in projective and behavioral assessment of students within the school setting. Corequisite: SPS 6193. Prerequisites: SPS 6191, SPS 6192.

SPS 6805 Professional Problems in School Psychology (3). Competencies in regard to the development, role and function of school psychologists. General orientation and legal and ethical issues included.

SSE 4312 Inquiry In Sociel Studies in the Elementary School (3). Designed to develop and refine those teaching competencies which allow the student to perform effectively as a teacher of children, using social studies as a mode of inquiry. Prerequisites: EDF 3723, EDG 3321, EDG 3322.

SSE 4380C Developing a Global Perspective (3). Theory, content, and practice. Introduction and utilization of learning materials and teaching strategies in Global Education lor K-12.

SSE 4384C Special Teaching Laboratory: Social Studies (3). Development of instructional skills, techniques, and strategies for teaching social studies in the junior and senior high school. Prerequisites: EDF 3723, EDG 3321, and EDG 3322. Field experience required

SSE 5908 Individual Study (1-3)(ARR). The student plans and carries out an independent study project under direction. Prerequisite. Consent of instructor

SSE 5945 Practicum: Social Studies Education (6), Supervised teaching in a junior or senior high school. Prorequisites: Admission to the Alternate Track Master's Program and complotion of prerequisite coursework in education and subject matter area.

SSE 5305 Instruction In Social Learning (Early Childhood) (3). Relinement of skills related to program development, methods of teaching, selection of materials, and roview of research, in preschool and early childhood education

SSE 6355 Instruction in Social Learning (Elementary) (3). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research in elementary education.

SSE 6394 Social Studies in Other Nations (3). The course will examine the concept of social studies as a subject area in elementary and secondary schools found in both developed and developing nations. Comparisons and contrasts will be made. Prerequisites: SSE 6633, SSE 6939.

SSE 6633 Teaching Social Studies in the Secondary School (3). Analysis of methods, programs, and material for teaching social studies in the junior and senior high school, and development of teaching skills.

SSE 6795 Seminar: Research in Social Studies Education (3). The course will examine research in social studies education. The course will serve as a lab for developing a dissertation research design. Prerequisite: EDF 5481.

Corequisites: EDF 6486, STA 5166, EDF 6403 or EDF 6475.

SSE 6925-28 Workshop in Social Studies Education (1-3). Production and application of materials and techniques in social studies education in a laboratory or field setting.

SSE 6929 Workshop In Content, Methods, and Materials of Teaching (1-3). Focus on content, methods and materials needed for teaching social studies in the elementary school, K-6.

SSE 6939 Seminar in Social Studies Education (3). Designed for advanced students, the readings and discussions will focus on policy issues and recent research in social studies education. Though primarily for experienced social studies teachers and supervisors, the course is open to administrators and others, with the consent of the instructor.

SSE 7938 Doctoral Seminar in Social Studies Education (3). Advanced doctoral study in current theories and research related to social studies education. Prerequisites: SSE 6939, EDF 6489.

TSL 5142 Curriculum Development In Description, analysis, planning, design, and evaluation of curriculum in English as a second language (K-adult). Prerequisite: TSL 6341.

TSL 5371 Special Methods of TESOL (3), Investigation of modern techniques

for the teaching of oral and written communication in English to non-native speakers of English, including the evaluation and development of materials for English to speakers of other languages. Issues in elementary, secondary, adult, vocational, and special education will also be addressed. Prerequisite: LIN 3010.

College of Education

Ira Goldenberg Dean Associate Dean Robert S. Winter Assistant Dean for North Miami Campus/ Janice R. Sandiford Broward Chairpersons: Curriculum and Instruction Division Robert V. Farrell Educational Policy and Human Resource Development Robert Vos Division Coordinator of Doctoral

Stephen M. Fain

Faculty

Programs

Alvarez, Carlos, M., Ph.D. (University of Florida), Associate Professor, International Development Education, Educational Policy and Human Resource Development

Badia, Arnhilda, Ph.D. (University of North Carolina, Chapel Hill), Associate Professor, Modern Language Education, Curriculum and Instruction

Baum, Rosemere, Ph.D. (Pennsylvania State University), Associate Professor, Home Economics Education, Educational Policy and Human Resource Development

Bath, John B., Ph.D. (Syracuse University), Assistant Professor, Elementary Mathematics and Science Education, Curriculum and Instruction

Bradley, Curlls H., Ed.D. (Temple University), Professor, Organizational Training, Vocational-Industrial Education, Educational Policy and Human Resource Development

Blucker, Judith A., Ph.D. (Florida State University), Professor, Health and Physical Education, Curriculum and Instruction, and Vice Provost

Campbell, Richard, Ed.D. (Indiana University), Professor, Science Education, Curriculum and Instruction, Dean of Graduate Studies, and Director of Institutional Development Carpenter, John A., Ph.D. (University of Southern California), Professor, Educational Foundations, Educational Leadership, Educational Policy and Human Resource Development

Chadwick, Ida F., Ph.D. (Florida State University), Associate Professor, Physical Education, Curriculum and Instruction

Cheyney, Wendy, Ed.D. (University of Miami), Associate Professor, Special Education for Learning Disabilities, Curriculum and Instruction

Cistone, Peter J., Ph.D. (Pennsylvania State University), Professor, Educational Leadership, Educational Policy and Human Resource Development

Cook, Joseph B., Ed.D. (University of Florida), Professor, Community College Teaching, Educational Policy and Human Resource Development

Crabtree, Myrna P., Ed.D. (Teachers College, Columbia University), Professor, Home Economics Education, Educational Policy and Human Resource Development

Divita, Charles, Jr., Ph.D. (Florida State University), Professor, Adult Education and Human Resource Development, Educational Policy and Human Resource Development

Escotet, Miguel Angel, Ph.D.
(University of Nebraska), Visiting
Professor (Courtesy),
International Development
Education and Educational
Psychology, Educational Policy
and Human Resource
Development

Fain, Stephen M., Ed.D. (Teachers College, Columbia University), Professor, Curriculum and Instruction and Director of Graduate Programs

Farrell, Robert V. Ph.D. (Teachers College, Columbia University), Associate Professor and Chairperson, Curriculum and Instruction

Fisher, Allen, Ph.D. (University of Connecticut), Associate Professor, Educational Leadership, Educational Policy and Human Resource Development

Gallagher, Paul D., Ph.D. (Florida State University), Associate Professor, Educational Research, Educational Policy and Human Resource Development, and Vice President for Business and Finance

- Gavilan, Marisal, Ed.D. (University of Tennessee), Associate Professor, Educational Psychology and Bilingual Education/TESOL, Educational Policy and Human Resource Development
- Gay, Lorraine R., Ph.D. (Florida State University), Professor, Educational Research, Educational Policy and Human Resource Development
- Gilbert, Robert K., Ph.D. (University of Minnesota), Associate Professor, Mathematics Education, Curriculum and Instruction
- Goldenberg, I. Ira, Ph. D. (University of Conhnecticut), Prolessor, Educational Policy and Human Resource Development, and Dean
- Greenberg, Barry, Ph.D. (New York University), Prolessor, Educational Research and Community College Teaching, Educational Policy and Human Resource Development
- Grosse, Christine U., Ph.D. (University of North Carolina, Chapel Hill), Assistant Professor, Modern Languages Education/TESOL, Curriculum and Instruction
- Hale, James A. Ph.D. (University of Wisconsin), Professor, Educational Leadership, Educational Policy and Human Resource Development
- Hauenstein, A. Dean, Ph.D. (Ohio State University), Professor, Industrial Arts Education, Educational Policy and Human Resource Development
- Kennedy, Daniel A., Ph.D. (University of Oregon), Associate Professor, Educational Psychology and Counseling, Educational Policy and Human Resource Development
- Kossack, Sharon Wall, Ph.D. (University of Georgia), Professor, Reading and Language Arts Education, Curriculum and Instruction
- Lezerue, Philip J., Ph.D. (University of Florida), Associate Professor, Educational Psychology and School Psychology, Educational Policy and Human Resource Development
- Lopez, Richard, Ed.D. (Florida Atlantic University), Associate Professor, Physical Education, Curriculum and Instruction
- Lucky, Luretha, Ed.D. (Arizona State University), Associate Professor, Special Education for Mental Retardation, Curriculum and Instruction
- McClintock, C. Edwin, Ed.D. (University of Georgia), Professor, Mathematics Education and Computer Education, Curriculum and Instruction

- Margolin, Edythe, Ed.D. (University of California), Professor, Early Childhood Education, Curriculum and Instruction
- Marshall, Nancy, Ph.D. (Cornell University), Associate Professor, Reading and Language Arts Education, Curriculum and Instruction
- Martinez-Perez, Luls A., Ph.D. (Florida State University), Associate Professor, Science Education, Curriculum and Instruction
- Mathewson, Grover, Ph.D. (University of California at Berkeley), Associate Professor, Reading and Language Arts Education, Curriculum and Instruction
- Mendoza, Allcla, Ed.D. (University of Miami), Associate Prolessor, Early Childhood Education, Curriculum and Instruction
- Mohamed Dominic A., Ph.D. (University of Minnesota), Associate Professor, Vocational Administration and Supervision and Vocational Education, Educational Policy and Human Resource Development
- Morrison, George S., Ed.D. (University of Pittsburgh), Prolessor, Early Childhood Education and Urban Education, Curriculum and Instruction
- Nathanson, David E., Ph.D. (University of Minnesota), Professor, Special Education for the Gifted/Mental Retardation, Curriculum and Instruction
- Novoa, Lorlana M., M.Ed. (University of Miami), Assistant Professor, Special Education and Educational Research, Curriculum and Instruction
- O'Brlen, George, Ph.D. (University of lawa), Assistant Professor, Science Education, Curriculum and Instruction
- Pearson, George B., Ed.D. (University of Oregon), Professor, Physical Education, Curriculum and Instruction
- Pell, Sarah W. J., Ed.D. (Duke University), Associate Professor, Educational Leadership, Educational Policy and Human Resource Development
- Pennington, Clement, Ed.D. (Pennsylvania State University). Associate Professor, Art Education, Curriculum and Instruction
- Reichbach, Edward M., Ed.D. (Wayne State University), Associato Professor, Elementary Education, Curriculum and Instruction

- Rembert, Emma W., Ed.D. (Syracuse University), Associate Professor, Reading and Language Arts Education, Curriculum and Instruction
- Rosenberg, Howard, Ed.D. (Teachers Callage, Columbia University), Associate Professor, Special Education for Mental Retardation, Curriculum and Instruction
- Ryan, Colleen A., Ph.D. (Ohio State University), Associate Professor, Special Education for the Emotionally Handicapped, Curriculum and Instruction
- Sandiford, Janice R., Ph.D. (Ohio State University), Associate Professor, Health Occupations Education and Computer Education, Educational Policy and Human Resource Development, and Assistant Dean for North Miami Campus/Broward
- Shostak, Robert, Ph.D. (University of Connecticut), Professor, English Education and Computer Education, Curriculum and Instruction
- Smith, Donald C., Ph.D. (Syracuse University), Professor, Educational Psychology and School Psychology, Educational Policy and Human Resource Development
- Smith, Douglas H., Ph.D. (Ohio State University), Associate Professor, Adult Education and Human Resource Development, Educational Policy and Human Resource Development
- Sowards, G. Wesley, Ed.D. (Stanford University), Distinguished Professor of Education, Educational Leadership, Educational Policy and Human Resource Development
- Strichart, Stephen S., Ph.D. (Yeshiva University), Professor, Special Education for Learning Disabilities, Curriculum and Instruction
- Sulliven, Zola J., Ph.D. (University of Illinois), Associate Professor, Reading and Language Arts Education, Curriculum and Instruction
- Testa, Robert F., Ph.D. (University of Miami), Associate Professor, Educational Foundations and Music Education, Educational Policy and Human Resource Development
- Toomer, Jethro, Ph.D. (Temple University), Professor, Educational Psychology and Community Counseling, Educational Policy and Human Resource Development

- Tucker, Jan L., Ph.D. (Indiana University), Professor, Social Studies Education and Global Education, Curriculum and Instruction
- Vigilante, Nicholas J., Ph.D. (Ohio State University), Professor, Elementary Education, Curriculum and Instruction
- Vos, Robert. Ed.D. (Rutgers University), Associate Professor, Organizational Training, Technical Education, and Vocational Education, and Chairperson, Educational Policy and Human Resource Development
- Wagner, Michael J., Ph.D. (Florida State University), Professor, Music Education, Curriculum and Instruction
- Winter, Robert S., Ph.D. (University of Illinois), Associate Professor, International Development Education, Educational Policy and Human Resource Development and Associate Dean
- Wolff, Robert M., Ph.D. (Ohio State University), Associate Professor, Parks and Recreation Management
- Woods, Sandra L., Ed.D. (Rutgers University), Associate Professor, Curriculum and Instruction

College of Engineering and Design

College of Engineering and Design

The College of Engineering and Design is composed of two schools committed to the development of professionals who will serve the community in a wide variety of fields. In addition, there are two units in the College solely devoted to research and other creative activities.

Bachelor's Degree Programs are offered in the following lields of study: Apparel Management Architectural Technology Civil Engineering Construction Management Electrical Engineering Industrial Engineering Industrial Engineering Mechanical Engineering

Master's Degrees can also be earned in the following fields of study: Civil Engineering Construction Management Electrical Engineering Environmental Engineering Environmental and Urban Systems Landscape Architecture Mechanical Engineering

Undergraduate Professional Certificates are available in:

Advanced Apparel Design Apparel Manufacturing Management Apparel Merchandizing Management Heating, Ventilation and Air Conditioning

Design Industrial Safety Production and Manufacturing

The programs of the College are directed toward the practical use of scientific, engineering, and technical principles to meet the objectives of industry, business, government, and the public.

The College provides each student with the opportunity to develop marketable skills and to obtain an education which will prepare him or her for a rewarding career and personal growth.

Underlying the programs of the College is a recognition that the growing impact of technology upon the quality of life is growing and that the proper application of technology is critical to meeting current and emerging human needs.

The College is actively engaged in a number of special programs as a service to the community and the University. One of these activities is the International Association for Housing Science, an organization with

membership from more than twenty nations, dedicated to improving housing technology and production, as well as studying the inter-disciplinary aspects of housing. The College faculty is actively engaged with business, industry, and government. Faculty members are participating in a variety of applied research projects in such areas as energy, transportation, solid waste disposal, biomedical devices and instrumentation, water resources, computer engineering, artificial intelligence, manufacturing, robotics, telecommunications, micro-electronics, structural systems biotechnology. microelectronics, etc.

Admission

Applicants to the College must submit an Application for Admission to the University and must follow the regular University procedures. Applicants must be eligible for admission to the University before admission to the College.

To be approved as "affiliated students", applicants must submit to the department the desired coursework and proof of the appropriate prerequisites for the requested coursework. The maximum number of credits allowed are 15 undergraduate and 12 graduate. The maximum number of credits allowed in a certificate program is the number required for the certificate.

Admissions and Program Planning - Bachelor's Degree. - School of Design

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Admission Requirements: All of the School of Design Bachelor's degree programs of the College are designed to integrate the community college graduate or junior-level transfer student into curricula which have established certain minimum competencies or skills as the requirements for the four-year degree. Consequently, requirements may be met in a variety of ways and through various sequences which are accommodated at the freshman and sophomore levels by the college parallel (A.A.) program of the community colleges and by four-year colleges. For the School of Design students, the College admits to full junior standing a student who meets one of the following requirements:

 Associate of Arts degree from an accredited community college. 2. Junior Level (60 semester hours) in good standing at a four-year college.

Others will be considered as exceptions on an individual basis. A student transferring with the Associate's degree (A.A.) is normally awarded 60 transfer credits toward the Bachelor's degree. A transfer student from a four-year college may not receive more than 90 credits of transfer toward the Bachelor's degree. The transferability of upper-level technical courses is determined by the advisor and is a part of the establishment of the student's program of study.

General Requirements for a Baccalaureate Degree in the Engineering Programs

In order to obtain a Bachelor's degree from the College, each student must satisfy the following minimum requirements:

- Obtain the minimum number of semester credits required by the specific program. Some majors require more than the minimum number of credits. Specific requirements beyond the minimum requirements are described in the sections devoted to the various departments in the College.
- Complete at least 35 semester credits in the College.
- Attain a minimum grade-point average of 2.0 in all engineering courses taken at the University.
- Satisfy the general education requirements of the State of Florida for the Bachelor's degree.
- 5. Satisfy the particular requirements for his or her own major and all University requirements for graduation.

Academic Advisors

A student who has been accepted to a degree program in the College must obtain and consult an advisor prior to the first class enrollment. An advisor may be obtained by contacting the Chairperson of the Department in which an academic major is desired. Continued contact (at least once per semester) with the advisor is urged to review progress and select courses for each succeeding semester. Such contact is required until an approved program of study is completed.

Courses taken without the required prerequisites and corequisites will be dropped automatically before the end of the term, resulting in a grade of DR or DF.

Cooperative Education

A Cooperative Education (Co-Op)
Program is conducted by the College in

conjunction with the Department of Cooperative Education in the Division of Student Affairs. In this program, students spend alternate semesters in school fulltime and fully employed in industry in a technical position directly related to their major. Academic credit, normally three per semester, is given for the work periods, and is counted toward the degree. Students receive full pay for their work in industry. Placement in coop positions is arranged by the Co-Op Program and includes both local and national industrial, business, and governmental agencies. Co-Op students must agree to spend at least three work periods in industry and must be able to complete the upper division program within two calendar years. Applicants for the program are evaluated by the College and should contact the Associate Dean, Because of the requirement for three work periods. students should enter the program during the first semester of the junior year, Inquiries from lower-division students, prior to transfer to the University, are encouraged since work may be arranged immediately upon enrollment. The Co-Op program also offers the Parallel Co-Op whereby a student might alternate work and study during the same semester by attending the University part-time and working part-time in industry

Academic Appeal Procedures

The College endeavors to provide an atmosphere in which the special needs of each student are served

The student shall make a reasonable effort to resolve the complaint with the instructor concerned within 15 days of the alleged occurrence (receipt of grade, etc.).

2. If the situation cannot be satisfactorily resolved, the student may appeal in writing to the Department Chairperson within ten days of the informal meeting with the instructor. The written appeal should include the nature and conditions of the problem and a summary of the informal meeting with the instructor. Within ten days of the receipt of the written appeal, the Chair shall discuss the appeal with the student and the instructor, and attempt to resolve the problem to the satisfaction of all concerned. The Chair will provide a statement of the resolution to both student and faculty

3. If the situation cannot be resolved to the satisfaction of all concerned in (2), i.e., the student, the instructor, and the Chairperson, any of those may refer the case to the Dean of the College This written appeal should include the nature and conditions of the problem, all previous statements and all appeal materials utilized in Stops 2 and 4

Within ten days of the written appeal, the Deans shall convene the student grie-vance committee as defined by the con-stitution of the Faculty Council. The Com-mittee shall not include faculty members previously involved in the situation.

The student appellate may choose to have another FIU student present the nature and condition of the problem to the Committee in his/her stead. In this case, the student appellant will assume the role of observer and allow his/her representative to present the problem.

Within five days of the Committee meeting, the grievance committee Chairperson will provide the Dean with a written report of the Student Academic Appeals Committee's decision.

Within five days of receipt of the Committee's report, the Dean will provide a written decision.

The Dean's decision is final. There is no further appeal process.

All deliberations shall be private and held confidential by all members of the Committee and those involved in the review.

Master of Science Degree Programs

The College offers Master of Science degrees in Civil Engineering, Construction Management, Electrical Engineering, Environmental Engineering, Environmental and Urban Systems, Landscape Architecture, and Mechanical Engineering. Prespective graduate students should refer to the appropriate section of the catalog, or contact the graduate advisor in either program.

Note: The programs, policies, requirements and regulations listed in this catalog are continually subject to review, in order to serve the needs of the University's various publics, and to respond to the mandates of the Florida Board of Regents and the Florida Legislature. Changes may be made without advance notice.

Florida International University and the College believes in equal opportunity practices which conform to all laws against discrimination and is committed to non-discrimination with respect to race, color, creed, age, handicap, sex, marital status, or national origin Additionally, the University is committed to the principle of taking the positive steps necassary to achieve the equalization of educational and employment opportunities

School of Design

Adele Smlth, Acting Associate Dean and Chairperson, Apparel Studies

Leonardo Alvarez, Chairperson,
Landscape Architecture and
Architectural Studies
Oktov Ural, Acting Chairperson

Architectural Studies
Oktay Ural, Acting Chairperson,
Construction Management

The School of Design offers baccalaureate degree programs in Architecture Technology, Apparel Management, Construction Management, and Interior Design. Graduate degree programs are offered in Construction Management and Landscape Architecture.

Community involvement

The School maintains close ties with the apparel, architecture, construction, and interior design industries. Industry advisory committees periodically review the curriculum to maintain its relevance to the needs of the industry. The Interior Design Committee sponsors a lecture series for students and industry bringing to Miami renowed artists, designers, and speakers.

Admission Preparation

Prospective students who are considering majors within the School of Design must meet the University's general admission requirements. Many of the School's academic programs require extensive prerequisite preparation prior to enrollment in certain courses. Students should check the individual program requirements. These prerequisite courses, in many cases, are not offered at the University and must be taken at an approved community college or university

Apparel Studies

Adele Smlth, Associate Professor and Chairperson

Judy Grossbard, Instructor Greta Howard, Lecturer Robert Merkel, Associate Professor

The Department of Apparel Studies offers a baccalaureate degree in Apparel Management with specializations in design, manufacturing, or merchandising management All majors are required to obtain industrial experience through the completion of career traineeships. Undergraduate and graduate level courses in clothing and textiles are also offered in the Department to serve other University programs.

Professional Certificate programs, in Apparel Manufacturing Management, Advanced Apparel Design, and Apparel Merchandising Management are alse available Refer to Certificate section for detailed information.

Degree Bachelor of Science

Lower Division Preparation

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Required: Thirty six semester credits of general education courses including: English composition (12), Social Science (6), Humanities (6), Natural Science (6), Mathematics (6) including college algebra or higher.

Recommended: Courses in fashion. accounting, marketing, economics, art, psychology, and management.

Apparel Design Management

Students who have completed equivalent basic courses in fashion design may apply to take the proliciency examination to qualify for immediate admittance into the advanced design courses. All others will be required to complete 107 semester hours at the University including the Basic Fashion Design Courses, A minimum grade of 'C' is required in all courses.

Basic Fashion Design Courses:

(3/ semester	nours)	
CTE 3731L	Fashion Illustration ¹	3
CTE 3703	Design Inspiration	3
CTE 3743L	Commercial Pattern	
	Drafting I1	3
CTE 3744L	Commercial Pattern	
	Drafting II ¹	3
CTE 3751L	Draping I ¹	3
CTE 3753L	Draping II1	3
CTE 3721L	Creative Design I1	3
CTE 3722L	Creative Design II1	3
CTE 3363L	Commercial Garment	
	Production I ¹	3
CTE 3401L	Survey of Textiles	4
ART 1201	2-D Design	3
ART 1202	3-D Design	3

¹These courses are presently not being offered at FIU. Equivalent courses are taught at Miami Dade Community College or may be completed at another approved fashion school.

Advanced Design Courses: (23 semester hours) (Students must pass a proliciency examination before admittance into the

Advanced Des	ign Courses.)	
CTE 3364L	Commercial Garment	
	Production II	3
CTE 3715	Fabrication of Designs	3
CTE 3733L	Advanced Fashion	
	Illustration	3
CTE 3755L	Advanced Draping and	
	Pattern Making	4
CTE 3771L	Menswear Design	2
CTE 3772L	Childrenswear Design	2
CTE 4773L	Active Sportswear	
	Design	2

È	lectives)
Other Program	Requirements: (46

(Required Design

CTE

semester hours)

semester not	irs)	
CTE 3010	Orientation	1
HME 3210	Personal and Career	
	Management	3
FAD 3232	Relationships	3
COA 3410	Consumer Resources	3
CGS 2060	Introduction to	
	MicroComputers	3
CTE 3761	Fashion Production	
	and Distribution	3
CTE 3748L	Pattern Grading	
	Analysis	2
CTE 3762	Cutting Analysis and	_
	Material Utilization	3
CTE 3763	Machine Evaluation	_
	and Selection	3
CTE 3821	Quantitative Decisions I	3
CTE 4442	Textile and Apparel	
	Testing	1
CTE 4442L	Textile and Apparel	
	Testing Lab	2
CTE 4602	Fashion and Culture	3
CTE 4767	Apparel Quality	
075 .705	Assurance	3
CTE 4768	Industrial Apparel	_
OTE 4000	Assembly and Costing	3
CTE 4890	Apparel Career	

Apparei Manufacturing Management

Seminar Apparel Field

Experience

6

CTE 4880

This specialty provides an overview of typical operations in apparel production. as well as supervisory and management skills necessary to oversee these operations. The program utilizes the resources available in the South Florida apparel industry. A minimum grade of "C" is required in all departmental courses.

Major Requir	ements: (62 semester	
CTE 3010	Orientation	1
COA 3410 CGS 2060	Consumer Resources Introduction to	3
	Microcomputers	3
CTE 3401L	Survey of Textiles	4
CTE 3742L	Commercial Pattern	
	Analysis	2
CTE 3748L	Pattern Grading	
	Analysis	2
CTE 3761	Fashion Production	
	and Distribution	3
CTE 3762	Cutting Analysis and	
	Material Utilization	3
CTE 3763	Machine Evaluation and	i
	Selection	3
CTE 3766	Apparel Work	
	Measurement	3
CTE 4442	Textile and Apparel	
	Testing	1

CTE 4442L	Textile and Apparel	
CTF 4767	Testing Lab Apparel Quality	2
012 4707	Assurance	3
CTE 4768	Industrial Apparel	Ŭ
	Assembly and Costing	3
CTE 4769	Apparel Production	
	Planning and Scheduling	
CTE 4880	Apparel Field	4
0.2 1000	Experience	6
CTE 4890	Apparel Career	
=	Seminar	1
EIN 3359	Industrial Financial Decisions	
EIN 3354	Engineering Economy	3
STA 3132	Business Statistics	3
ETI 4661	Plant Layout	3
ETI 4681	Industrial Supervision	3

Apparel Merchandising Management

The Apparel Merchandising specialization is designed for students seeking management careers in the fashion industry in buying, sales, advertising, customer relations, operations, visual merchandising, manufacturing, and merchandise management. A minimum grade of "C" is required in all courses.

Major Requirements: (67 semester hours) CTE 2010

CTE 3010	Orientation	1
COA 3410	Consumer Resources	3
CGS 2060	Introduction to	
	Micorcomputers	3
CTE 3200	Clothing and	
	Consumer	2
CTE 3312L	Apparel Construction	
	and Analysis	2
CTE 3401L	Survey of Textiles	2
CTE 3761	Fashion Production	
	and Distribution	3
CTE 3852	Visual Merchandising	3
CTE 4442	Textile and Apparel	
	Testing	1
CTE 4442L	Textile and Apparel	
	Testing Lab	2
CTE 4602	Fashion and Culture	3
CTE 3821	Quantitative Decisions I	
CTE 4822	Quantitative	-
	Decisions II	3
CTE 4827	Fashion Buying and	-
	Merchandising	
	Strategies	3
CTE 4831	Apparel Inventory	
	Management	3
CTE 4832	Product Knowledge	3
CTE 4880	Apparel Field	
	Experience	6
CTE 4890	Apparel Career	
	Seminar	1
FAD 3232	Relationships	3
HME 3210	Personal and Career	
	Management	3
MAR 3023	Marketing Management	3
144D 4450		-

Retail Management

MAR 4153

	or	
CTE 3815	Apparel Retail	
	Operations	
MAR 4154	Cases in Retail	
	Management	3
MAR 4303	Advertising	
	Management	3
	or	

CTE 4851L Fashion Promotion

Minor in Apparel Manufacturing Management

Intended for students in management or engineering seeking expertise specific to the apparel industry. A minimum grade of "C" is required in all courses.

Required Courses: (15 semester hours)

hours)		
CTE 3762	Cutting Analysis and	_
	Material Utilization	3
CTE 3763	Machine Evaluation	
	and Selection	3
CTE 3766	Apparel Work	
	Measurement	3
CTE 4768	Industrial Apparel	
	Assembly and Costing	3
CTE 4767	Apparel Quality	•
012 4707	Assurance	3
	Or	0
CTE 4769		
CIE 4/69	Apparel Production	
	Planning and	
	Scheduling	4

Minor in Apparel Merchandising Management

Intended for business, marketing, or vocational education majors interested in expensies specific to appear retailing and wholesaling enterprises A minimum grade of "C" is required in all courses.

Required Courses: (16 semester hours)		
CTE 3401L	Survey of Textiles	4
CTE 3761	Fashion Production	
	and Distribution	3
CTE 3821	Quantitative Decisions	13
CTE 4827	Fashion Buying and	
Merchandising		
	Strategies	3
One CTE advised elective 3		

Course Descriptions Definition of Prefixes

CTE-Clothing and Textiles, FAD-Family Development; HME-Home Management and Equipment

COA 3410 Consumer Resources (3). Evaluation of information needed to make effective consumer choices includes sources of consumer help and protection, pertinent legislation, and ecological conditions with which consumer interacts. Exporiences provided in product and service comparison.

CTE 3010 Orientation (1). Introduction to the specialties in the Apparel Studies

Department and orientation to the University. Includes personal assessment of basic skills needed for academic and vecational success.

CTE 3050 The Fashlon World (1). Study of the evolution of fashion from concept to consumer. Various fashion careers will be explored. Field trips and guest speakers will be utilized. (For nonmajors)

CTE 3200 Clothing and Consumer (2). Study of various topics pertaining to the consumer and his or her apparel choices including clothing as a mean of communication, optical illusions, art elements, care of clothing, and success dressing.

CTE 3204 Professional Wardrobe Coordination (1). Analyzes effect of professional image on career success. Prepares students to assist others in planning wardrobes based on personal qualities and career settings. Open to non-majors.

CTE 3310L Principles of Clothing Construction (3). Includes experience and understanding of basic principles of clothing construction and leads to more advanced techniques and learning. Course individualized according to student's needs and expertise.

CTE 3312L Apparel Construction and Analysis (2). Evaluation of apparel construction methods. Includes construction of a simple garment.

CTE 3363L Commercial Germent Production I (3). Fundamentals of appared construction using industrial machines and techniques. Samples will be sewn.

CTE 3364L Commercial Garment Production II (3). Advanced techniques in apparel construction using industrial machines and techniques. Introduction to cost factors related to production. Prerequisite: CTE 3363L or equivalent.

CTE 3401L Survey of Textlles (4) Study of the physical properties of textile fibers, yarns, fabrics, color applications, and finishes, as they relate to care, performance, and consumer satisfaction identification and analysis of fibers and fabrics will be emphasized.

CTE 3461 Apparet Fabrics (2) Contributions of fiber type, yarn and labric structure, dyoing, and finishing to manulacturing characteristics and marketability of apparet fabrics

CTE 3703 Design Inspiration (3).
Study of resources utilized for inspiration

when designing apparel. Emphasis will be on histeric costume, the arts, and other areas of design.

CTE 3715 Fabrication of Designs (3). Selection and coordination of fabrics for apparel designs. Includes analysis of fabrication choices as they relate to production problems, design features, lashion trends, cost factors, and marketability. Prerequisite: CTE 3401L.

CTE 3721L Creative Design I (3). Application of basic design skills and creativity to the sketching and execution of design projects in the categories of sportswear, holiday fashions, and dresses. Prerequisites: CTE 3744L, CTE 3753L, CTE 3363L.

CTE 3722L Creative Design II (3). Emphasis on designing and fabricating fashion lines. Advanced draping and pattern techniques will be used to develop patterns. Sample garments will be constructed. Prerequisite: CTE 3721L

CTE 3731L Fashion Illustration (3). Application of design concepts to fashion illustration. Development of the fashion figure as basis for construction sketches and finished illustrations. Prerequisite: ART 1201. Corequisite: ART 1202.

CTE 3733L Advanced Fashlon Illustration (3). Advanced illustration work in rendering fabric drapery characteristics, construction details, celor, and texture. Prerequisite: CTE 3731L.

CTE 3742L Commercial Pattern Analysis (2) Overview of theory, geometric principles, and methods of pattern making for apparel and allied products. Development of a set of patterns. Corequisitie: CTE 3748L.

CTE 3743L Commercial Pattern Drafting I (3), Development of master patterns from measurements. Emphasis on precision pattern-making according to industry standards.

CTE 3744L Commercial Pattern Drafting II (3) Use of master patterns in developing design ideas according to industry standards Prerequisite CTE 3743L.

CTE 3748L Pattern Greding Analysis (2). Overview of theory, principles, and methods used in commercial pattern grading in accordance with accepted size ranges and specifications Corequisite CTE 3742L

CTE 3751L Draping I (3). Basic fundamentals of pattern making through draping basic silhouettes

CTE 3753L Draping II (3). Additional practice in use of draping techniques for fashion design. Industry standards will be used in the development of specific fashion styles. Prerequisite: CTE 3751L.

CTE 3755L Advanced Draping and Pattern-making (4). Development of additional skills in designing garment features using appropriate industrial draping and pattern techniques, including sloper manipulation. Analysis of fit emphasized. Prerequisites: CTE 3744L and CTE 3753L.

CTE 3761 Fashion Production and Distribution (3). Study of apparel industries, with supervised observation of various aspects of production and distribution.

CTE 3762 Cutting Analysis and Material Utilization (3). Overview of cutting operations including fabric inspection, scaling, marking, spreading, cutting, and costing. Effective material utilization emphasized.

CTE 3763 Machine Evaluation and Selection (3). Study of thread, needles, stitch, and seam formation as it relates to apparel products. Survey of industrial sewing and pressing equipment and attachments. Cost considerations and payback periods examined.

CTE 3766 Apparel Work Measurement (3). In-depth study of procedures used to establish piece-work rates for sewing operations by using time study and M-T-M methods. Includes incentive systems, follow-up studies, and how to set an apparel plant on a piece work system.

CTE 3771L Menswear Design (2). Application of commercial techniques to the creative design of casual apparel for men. Prerequisite: CTE 3755L.

CTE 3772L Childrenswear Design (2). Application of commercial techniques to the creative designing of apparel for children. Prerequisite: CTE 3755L.

CTE 3815 Apparel Retail Operations (3). Study of the non-merchandising functions of an apparel store such as advertising, control, personnel, customer services, distribution, Includes guest presentations on maintenance, warehousing, and security.

CTE 3821 Quantitative Decisions for Fashion Retailing I (3). Review of basic retailing math and application of financial management principles, with emphasis on relationships between sales volume, stock turnover, expenses, and profits. CTE 3852L Visual Merchandising (3). Study and application of the principles and techniques of creative 'in store' and window dispiays. Field work included.

CTE 4340L Advanced Clothing Construction (3). Additional experience in handling special fabrics, pattern and garment fitting, and application of principles and techniques of commercial clothing construction. Prerequisite: CTE 3310L or equivalent.

CTE 4352L/5354L Tailoring (3). Application of custom tailoring techniques to construction of suit or coat, with emphasis on fabric selection and pattern alteration. Graduate students will have additional requirements. Prerequisite: CTE 4340L or equivalent.

CTE 4442 Textile and Apparel Testing (1). Fundamentals of the commercial testing methods used to evaluate fabric and garment performance. Includes statistical analysis of test results. Prerequisite: CTE 3401L or equivalent. Corequisite: CTE 4442L.

CTE 4442L Textile and Apparel Testing Laboratory (2). Laboratory to accompany CTE 4442.

CTE 4347L/5348L Pattern Alterations (3). Stresses importance of pattern selection for individual figure types and pattern alteration for special fitting problems. Students will construct a garment, make sample pattern alterations for special fitting problems, and alter a ready-made garment. Graduate students will have additional requirements. Prerequisite: CTE 3310L or equivalent.

CTE 4465 Textile and Apparel in International Trade (3). Examines legislation, theories, concepts, and problems relating to the international trade of textile and apparel products. Defines the scope and challenge of the textile/apparel international market.

CTE 4471L/5475L Creative Textiles (3). Fundamental principles of designing and constructing textile fabrics. Includes macrame, batik, tie-dying, weaving, knitting, and crocheting. Graduate students have additional requirements.

CTE 4602 Fashion and Culture (3). Study of evolution of apparel and its relationship to psychological, sociological, technological, historical, and cultural lactors.

CTE 4767 Apparel Quality Assurance (3). Techniques and procedures used to inspect and evaluate the quality level of textile fabrics, in-process apparel products, linished apparel products,

and goods received by the retailer.

CTE 4768L Industrial Apparel
Assembly and Costing (3). Analysis of
the theory and methods of assembly of
apparel and allied products. Costing of
apparel products is examined as it
relates to the wholesale pricing of the
product. Prerequisites: CTE 3763 and
3766

CTE 4769 Apparel Production Planning and Scheduling (4). Integrates all phases of apparel production. Correlations and interactions among sales, sales forecasting, fabric purchasing, trim purchasing, production planning, scheduling, and control. Prerequisite: CTE 4768.

CTE 4770L Swimwear Design (2). Application of commercial design techniques to the special problems of creative swimwear design. Prerequisite: CTE 3755L

CTE 4773L Active Sportswear Design (2). Application of commercial techniques to the creative design of active sportswear for men and women. Prerequisite: CTE 3755L.

CTE 4774L Womenswear Design (2). Application of commercial techniques to the creative design of apparel for women, excluding sportswear. Prerequisite: CTE 3755L.

CTE 4775L Sportswear Design (2). Application of commercial techniques to the creative design of sportswear for misses and juniors. Prerequisite: CTE 3755L.

CTE 4814 Apparel Entrepreneurship (3). Planning and management of small retail apparel stores. Emphasis on special problems inherent in merchandising of fashion apparel. Prerequisites: CTE 3821 and CTE 4827.

CTE 4822 Quantitative Decisions II
(3). Further exploration of financial
management in apparel sales
organizations based on dollar and unit
figures. Emphasis on profit influences.
Prerequisite: CTE 3821 or equivalent.

CTE 4827 Fashion Buying and Merchandising Strategles (3). Study of major considerations involved in buying and marketing of fashion merchandise. Includes development of merchandise assortment plans, with emphasis on effective store distribution. Prerequisite: CTE 3821.

CTE 4831 Apparel Inventory
Management (3). Study of management

of Iashion merchandise to increase sales and profit. Includes use of computer hardware and software to aid inventory control and decision-making. Special factors of distribution and stock control for chain and branch stores, as well as warehouse operations, will be studied. Prerequisite: CTE 4827 or equivalent.

CTE 4842 Product Knowledge (3). Extension of merchandising principles to include non-textile materials such as leather, furs, accessories, and home furnishings. Investigation of materials, construction, styles, and merchandising requirements. Prerequisite: CTE 3761

CTE 4851L Fashlon Promotion (3). Study of processes and actions that move fashion merchandise including evaluation of their effectiveness to the retailer. Includes guest presentations in advertising, display, public relations. Students plan, organize and produce a Fashion Show.

CTE 4880 Apparel Field Experience (3-6). Supervised 'on-the-job' training and periodic seminars. Consent of instructor required.

CTE 4890 Apparel Career Seminar (1). Exploration of local fashion-related career opportunities and proficiencies required for these positions. Guest speakers utilized.

CTE 4905/5905 Independent Study (1-3).

CTE 4930 Special Topics (1-3). For groups of students who wish an intensive study of topics not otherwise offered in the University. Consent of laculty supervisor and department chairperson is required

CTE 5345 New Trends in Clothing Construction (3). Study of the latest techniques for sewing today's fabrics, including some factory methods. Prerequisite: CTE 4340L or equivalent.

CTE 5355L Tailoring Menswear (3). Application of tailoring techniques commercially used in the production of menswear, through the construction of a knit jacket and trousers Prerequisite. CTE 4340L or equivalent.

CTE 5426L Recent Developments in Textiles (3). Exploration into recent developments in textile libers and fabrics. Laboratory oxercises in textiletesting procedures

CTE 5746L Pattern Design (3). Principles of pattern fitting will be explored through the construction of a basic stoper. Samples of various pattern design techniques will be constructed. Students will design and construct at least one garment. Prerequisite: CTE 4347L or CTE 4340L.

CTE 5885 Apparel Fleld Experience (3-6). Supervised field placement in local apparel settings for professionals in apparel careers. Permission of chairperson required.

CTE 5930 Textiles and Clothing Seminar (1-3). By permission of instructor only.

FAD 3232 Relationships (3). Emphasizes attitudes, feelings, communication, life styles in varying interpersonal relationships. Includes human sexuality component. Open to non-majors.

HME 3210 Personal and Career Management (3). Application of management principles to personal and family living, as well as career effectiveness. Emphasis on planning and organizational skills as assets in the business world as well as tools with which to promote personal and family satisfaction. Open to non-majors

Landscape Architecture and Architectural Studies

Leonardo Alvarez, Assistant Professor and Chairperson

Jaime Canaves, Associate Professor Gisela Lopez-Mata, Assistant Professor

Jose Lozano, Assistant Professor Iraj Majzub, Professor John Sanderson, Associate Professor

The Department of Landscape Architecture and Architecture Studies is dedicated to advancing the professions of architecture, landscape architecture, and interior design. In keeping with the nature of these professions, the programs are taught in an interdisciplinary manner, taking full advantage of the resources and areas of expertise offered by each. The department offers two undergraduate programs, a Bachelor of Science in Architecture Technology and a Bachelor of Science in Architecture Technology, and a graduate Master of Landscape Architecture.

Articulation agreements have been made with Broward Community College and Miami Dade Community College to facilitate the transfer of graduates of appropriate Jower division programs to programs in the department.

Only 'C' grades or higher are accepted for transfer of applicable prerequisite and core courses from other institutions. No grade below a 'C' will be accepted for graduation in prerequisite or core courses.

Students must petition the faculty of the department in writing for any deviation of the established policies. The faculty will decide on the cases on an individual basis.

Architectural Technology

This program gives the student a multidisciplinary knowledge of the major areas related to the practice of Architecture, Emphasis is on the balance and relationships between the technical and managerial aspects of the Architectural project with design. These aspects include cost estimating and economic planning; the systematic approaches to building design, design development, preparation of working drawings and specifications; areas of field management and office administration; strength of materials; and theory and design of structures. Furthermore, the student is given the option of concentrating on one or more of the above areas by selecting related electives in consultation with his or her advisor

Degree: Bachelor of Science

Lower Division Preparation

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program. In addition, FIU undergraduates with less than 48 semester hours, must meet all the lower division. Architectural Technology prerequisites.

Upper Division Transfer Applicants
Completion of an Associate's degree in
Architectural Technology or prearchitecture, or related area or
completion of at least 60 semoster
hours, and submission of a portfolio. All
applicants for admission will have their
credentials reviewed by a
faculty/professional Admissions. Review
board prior to full admission into the
program. Conditional admission can be
granted pending review of credentials.
Applicants should consult the
department for specific information.

Graduation Requirements
To graduate, students must complete all

the Lower Division program roquiroments including General Education requirements, and all Upper Division Program Core requirements and Senior Portfolio review by a Faculty/Professional Jury

With the approval of the Advisor and Admission Review Board, upper division students must complete a minimum of 63 semester hours to graduate, which includes the following core requirements or their equivalent:

Upper Division Program (63 semester hours minimum) Major Requirements: (60 semester hours)

ARC 3450	Architectural Innovation	•
100 0404	for Construction	3
ARC 3484	Advanced Architectural	
	Drawing and Design I	4
ARC 3586	Building Systems	3
ARC 3786	Survey of	
	Architectural History	3
ARC 4039	Architectural Design	4
ARC 4270	Professional Office	
	Practice	4
ARC 4335	Site Development	4
ARC 4485	Advanced Architectural	
	Drawing and Design II	4
ARC 4590	Structural Design	4
BCN 3402	Mechanics of Materials	4
BCN 3611	Construction Cost	
	Estimating	3
BCN 3703	Management of	
	Construction Projects	3
BCN 3740	Legal Aspects and	•
	Construction Labor Law	3
BCN 3761	Specification Writing	4
BCN 3762	Codes and	7
	Specifications	3
BCN 4260	Quality Control in	•
	Construction	3
BCN 4561	Environmental Control	٠
30	in Buildings	4
Flectives: Sele	ected with an advisor to	-
Licentes, ociocice with all advisor to		

interior Design

required):

The Interior Design program is designed to enable graduated students to work with other professionals such as architects and engineers in the design of commercial and institutional projects. The program incorporates the recommendations and standards of national and local professionals societies and prepares students for work in a design firm or for self-employment at the

meet degree requirements and program

objectives (minimum semester hours

professional level.
The interdisciplinary program
allows students to understand the
important aspects in the construction
industry such as methods and materials,
costs, codes and environmental control
systems. Together with the development
of skills, the student explores through
the different projects specific aspects of
the profession such as furniture, fixtures
and equipments.

Degree: Bachelor of Science

Lower Division Preparation

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program. In addition, FIU undergraduates must meet all the lower division Interior Design prerequisites.

Upper Division Transfer Applicants Completion of an Associate's degree in Interior Design or related area of studies, or completion of at least 60 semester hours

Graduation Requirements

To graduate, students must complete the lower division program requirements including General Education requirements, and all Upper Division Program core requirements or their equivalent.

Upper Division Program

With the approval of the advisor, students must complete a minimum of 62 credits selected from the following list:

Major Requirements: (56 semester hours)

ARC 3786	Survey of Architectural History	3
ARC 4270	Professional Office	
DOM 0044	Practice	4
BCN 3611	Construction Cost Estimation	3
BCN 3740	Legal Aspects and	3
DOI1 3740	Construction	
	Labor Law	3
BCN 3761	Specifications Writing	4
BCN 4561	Environmental Control	•
	in Building	4
IND 3100	History of Interiors I	3
IND 3130	History of Interiors II	3
IND 3210	Advanced Interior	
	Design I	4
IND 3423C	Sources, Materials	
	and Cost Estimating	_
IND 4220	for Interiors	3
IND 4220	Advanced Interior Design II	
IND 4221	Institutional Interiors	4
IND 4311	Media and Methods	ې
1110 4011	of Presentation	3
IND 4430	Lighting Design	3 3 3
IND 4441C	Furniture Design	3
IND 4905	Independent Study	
	(Thesis)	5

Electives: Selected with an advisor to meet degree requirements and program objectives (minimum semester hours required):

Graduate Degree Program

Master of Landscape Architecture
The graduate program in Landscape
Architecture is designed to prepare
graduates for professional practice as
well as to advance the knowledge base
of the field through research. By
applying their understanding of the
natural and built environments,
landscape architects plan and design
projects which range from gardens to
regional space systems to national
parks. Whether for public or private use,
the landscape architect is concerned
with the quality of relationships between
people and their environments.

The program is open to students holding a baccalaureate degree or the equivalent which meets standards comparable to those required for an FIU baccalaureate degree. No previous academic or experiential training in Landscape Architecture is required.

This program, which leads to the advanced professional degree in the discipline was developed and operates in affiliation with the graduate Landscape Architecture program at the University of Florida, Gainesville. Up to 12 semester hours of the required core courses may be taken at either institution.

The program is composed of 92 semester hours of course work distributed as follows: Landscape Architecture Design 36 Design Implementation 23 History and Theory 9 Professional Practice Studies 9 Research Specialization 15 Students with undergraduate degrees in Landscape Architecture, or architectural related fields, may petition for advanced standing. Students granted advanced standing may enter the program at a level commensurate with their undergraduate educational achievement in architecture.

Course Descriptions

Definition of Prefixes

ARC-Architecture; IND: Interior Design; LAA-Landscape Architecture

ARC 1110 Graphic Communication I (4). The introductory graphic course.

(4). The introductory graphic course. Basic techniques and materials: orthographic and isometric projections, perspective, freehand and mechanical drawings, lettering, pencil, ink, film, papers, and boards.

ARC 1311 Design Graphics I (4). The introductory design course. Students will utilize appropriate physical, economic, sociological, and environmental data in the application of design process to

design programs and solutions. Prerequisites: ARC 1110.

ARC 1461 Methods and Materials of Construction I (3). The first course in methods and materials. Physical and chemical properties of materials, manufacture, size and shape, and performance under normal loads in a variety of light construction assemblies. Corequisite: BCN 1252.

ARC 2111 Graphic Communication II
(4). The second course in graphic communication. Students will develop presentation skills and broaden their visual experience. Presentations will incorporate two and three-dimensional design elements. Prerequisite: ARC 1110.

ARÇ 2313 Design Graphics II (4). The second design course. Solutions to design problems emphasizing space, form, texture, color, orientation, circulation and structure, and utilizing perspective and model-making presentation skills. Prerequisites: ARC 1311, and 2111.

ARC 2462 Methoda and Materials of Construction II (3). Methods, materials, and details of general construction emphasizing the physical and chemical properties of materials; the behavior of materials and assemblies under normal applied loads. Prerequisites: ARC 1461 and BCN 1252. Corequisite BCN 2256.

ARC 3127 Graphic Communication (3). To develop the understanding and graphic skills necessary to the conception and communication of design and engineering technology. The course is flexible in order to accommodate different student backgrounds. Basic graphic methods and media including orthographic and isometric prejection; one and two-point perspective; composition, lettering, and presentation techniques.

ARC 3210 Architectural Concepts of Construction (3). Introduction to principles of design and perception Study of user's need relationship with environmental and human factors Examination of architectural design ideas and their development
Prerequisite: ARC 3466 or equivalent

ARC 3450 Architectural Innovations for Construction (3). Specialized study in an area of interest to the student, where architectural design is used with new methods of construction due to advancing technological developments. Drawings and field surveys. Prerequisite Junior standing.

ARC 3466 Materials and Methods of Construction (3). A study of the types of construction and materials used in buildings. How materials are properly installed and inspected, including the use of special equipment, in accordance to specifications, codes, standards, and agencies' recommendations.

ARC 3484 Advanced Architectural Drawing and Design I (4). Methodology of planning and design of architectural projects, with special emphasis on working drawings and detail drawings. Prerequisite: ARC 2111 or equivalent.

ARC 3586 Building Systems (3). Introduction to the problems related to the production of mass housing and applications of 'industrialization' to the process of building. Systematic analysis and evaluation techniques of modular construction. Prerequisite: ARC 2462 or equivalent.

ARC 3786 Survey of Architectural History (3). Comprehensive study of architectural forms, styles and construction techniques throughout history. Prerequisite: ARC 3466 or equivalent.

ARC 4039 Architectural Design (4). Integrated study of basic design concepts and principles of design. Development of architectural design products, presentation drawings, plans and quantity surveys. Prerequisite: ARC 2111 or equivalent.

ARC 4270 Professional Office
Practice (4). Assignments in office
administration, negotiation of contracts,
lee structure, client and public relations.
Business organization, procedure
scheduling and task allocation within an
architectural office Prerequisite. BCN
3740 or equivalent

ARC 4335 Site Development (4). Fundamentals of site planning physical, economic, social, and governmental constraints affecting development zoning, land use controls; subdivision layout, modular design; site characteristics (soil, geology, topography), drainage; access Design and construction techniques Prerequisite BCN 2256

ARC 4485 Advanced Architectural Drawing and Design II (4). New techniques in the preparation of working drawings, detail drawings; updating and review Preparation of finish schedules, with correlation to specifications writing Prerequisite. ARC 3484.

ARC 4590 Structural Design (4). Elements of structural design in steel, reinforced concrete, and timber, with design specifications per AISC, ACI and NDS. Introduction to prestressed concrete design. Loadings and structural elements commonly encountered in construction will be used for analysis and design. Prerequisite: BCN 3402 or equivalent.

ARC 5176C Computer Practices In Design II (3). Advanced study in concepts, issues and methods in computer-aided architectural design. Application of ARC 5175. Prerequisite: ARC 5175 or equivalent.

ARC 5336 Basic Utilities and Housing (3). The study of the importance of basic utilities (such as roads, sewer and water supply systems) in housing planning and construction. A relative cost analysis. Health problems and sociological effects of lack of basic utilities. Innovative concepts to incorporate basic utilities to all housing projects in developing countries. Prerequisite: Permission of instructor.

ARC 5916 Innovations in Building Technology (3). Experimental approach to new materials and methods applicable to the field of construction. Prerequisite: Permission of instructor.

IND 3100 History of Interiors I (3). An analysis of the history of architectural interiors, furniture and decorative arts from ancient times through the Neo-Classical Period Prerequisite: ARC 3786

IND 3130 History of Interiors II (3) An analysis of the history of architectural interiors, furniture and decorative arts from the Neo-Classical Period the present Prerequisite IND 3100

IND 3210 Advanced interior Design I
(4). Consideration and application of design enterial including floor, wall and ceiling materials and treatments, furniture selection and arrangement, illumination, ventilation, and selected architectural details. Prerequisite: Junior standing. Corequisite IND 4311.

IND 3422C Sources, Materials and Cost Estimating for Interiors (3) Sources and materials used by interior designers in the development of a design project. Materials available in the market for furniture linishes and equipment and its costs are analyzed Prerequisite. IND 3210.

IND 3423C Sources, Materials, and Cost Estimating for Interiors (3) Sources and materials used by interior designers in the development of a design project. Materials available in the market for furniture linishes and

equipment and its costs are analyzed. Prerequisite: IND 3210.

IND 3450C Interlor Design Construction Drawing (4). Working drawings for interior designers including interior spaces and cabinet work detailing. Prerequisites: BCN 1252, ARC 1451, ARC 2462.

IND 3451C Interior Design Construction Drawing (4). Working drawings for interior designers including interior spaces and cabinet work detailing. Prerequisites: BCN 1252, ARC 1451, and ARC 2462.

IND 4220 Advanced Interior Design II (4). Analysis, synthesis, articulation, and design execution of commercial spaces, integrating human factors, environmental-technological systems, activity structure, and symbiotic relationships as space design determinates. Prerequisites: IND 3210, IND 4311.

IND 4221 Institutional Interiors (4).
Analysis and synthesis of institutional functions, administrative controls, resources, constraints and policies in planning economic, behavioral, and environmental parameters. Prerequisite: Junior standing.

IND 4311 Media and Methods of Presentations (3). Applications of media and materials used in presentation of design concepts and programs to clients, groups, and organizations. Emphasis on various equipment and graphic techniques available, their application and use in simple and detailed communications. Corequisite: IND 3210.

IND 4430 Lighting Design (3). A fundamental course in lighting with emphasis on interaction with the design of an interior space. Prerequisites: BCN 4561 and IND 3210.

IND 4441C Furniture Design (3). Introduction to the human factors, concepts, function, materials and techniques of furniture design.

IND 4501 Interior Design Practice (3). The student will be introduced to the specific skills necessary to succeed in the practice of interior design such as business and client relations, office management, preparation of legal documents, marketing and billings. Prerequisites: BCN 3611 and IND 3210.

IND 4905 Independent Study (Thesls) (VAR). Simulated conditions of an interior design commission assuming all responsibilities of a professional interior designer, providing all required services including: cost estimate, contract,

conceptual design drawings, selection of furniture and accessories, lighting systems, and treatment of walls, floors and ceilings. Prerequisite: Completion of Interior Design curriculum.

LAA 3350 Landscape Design I (4). Application of Basic Design principles to the design of landscape and garden. A general survey of design elements, restraints, plant materials, and other garden materials will aid the student to develop projects in a laboratory environment. Prerequisite: ARC 3127

LAA 3712 History of Landscape (3). A survey of landscape history throughout the ages. From the gardens of Mesopotamia, Roman and Islamic periods, the Monastery and Castle gardens of middle ages and the Renaissance, to the influence of Oriental gardens and the modern era.

Prerequisite: Permission of instructor.

LAA 5212 Office Practice (3). Overview of office organization, management of projects, cost analysis, organization and preparation of construction documents, review of legal papers and forms, alternative patterns of management, emerging landscape practices.

LAA 5335 Site Improvement (3). This course deals with the computer applications and to computer utilization in Landscape Architecture. Explore both the potentials and limitations of computer usage in the profession. Prerequisites: CGS 3061 or equivalent and department approval.

LAA 5371 Computer Practices in Design I (3). Introduction to processes of site construction and design. Specifically, microclimate design principles, grading and earthwork calculations, hydrology and drainage, soil characteristics, construction materials and road alignment. Prerequisite: LAA 5652.

LAA 5425 Advanced Landscape Construction (3). This course will cover planting, irrigation, cost estimating, specifications, and construction documents. Emphasis will be on production drawings/fieldwork, planting plans, layouts, detailing, and inspections. Prerequisite: LAA 5335.

LAA 5521 Natural Landscape Systems (3) Environmental planning and landscape design issues will be related to an overview of basic ecosystems, plant materials and earth science concepts.

LAA 5652 Interdisciplinary Design Studio I (6). Introduction to two- and three-dimensional representational techniques. Fundamental geometric constructions, spatial theory, three-dimensional perception and color theory. Programmed designs are executed. Prerequisite: Departmental approval.

LAA 5653 Landscape Architectural Design 1 (6). Introduction to the design process and sources of form in landscape architecture. Projects focus on spatial composition and the use of landscape materials in the solution of design problems. Prerequisite: LAA 5652.

LAA 5715 Architectural History and Theory (3). An overview of architectural history, from the beginnings of western architecture and urban design to the 20th century, including current trends.

LAA 5716 History of Landscape Architecture (3). Focus will be on the development of landscape architecture as a profession, and an art form, from the Renaissance to the 20th century. Theoretical concepts and ideologies will be discussed in relationship to built works.

LAA 6215 Advanced Landscape Architectural Practice (3). Topics to be covered include economic viability, organizational structure, intra-office relationships, management systems, task definition, and computer applications. Prerequisites: LAA 5212 and LAA 5371.

LAA 6222 Landscape Architecture Communication (3). This course develops methods and techniques for the effective communication of landscape planning and design values to the consumer. Prerequisite: Departmental approval.

LAA 6322 Economics of Landscape Architecture (3). This course investigates demand/market estimations, project development and project management for a broad array of major landscape architectural work.

LAA 6342 Landscape Aesthetics (3). This course explores values of natural, rural, industrial and urban landscapes. Emphasis is on aesthetic perception and the relationship to the design process.

LAA 6382 Methods of Environmental Analysis (3). Primarily through case studies, this course will explore the methods available to the landscape architect for analyzing land resource data and applying the results to land management and environmental design. Prerequisites: LAA 5175 and LAA 5521.

LAA 6541 Tropical/Subtropical Landscape (3). In-depth study of tropical and subtropical landscapes. Topics to be covered include natural resource, unique climatic conditions, plant materials, natural processes, and the interaction of man with the environment. Prerequisite: LAA 5521. Corequisite: LAA 6541L.

LAA 6541L Tropical/Subtropical Landscape Fieldwork Lab (2). Fieldwork component of tropical/ subtropical landscape. The recognition, character analysis, growth requirements and the use of tropical and subtropical plant materials will be stressed.

LAA 6654 Landscape Architectural Design 2 (6). This course will focus upon housing issues as they relate to design. Project scale varies from single family homes to high density multi-family housing development of residential environments in urban and rural settings. Prerequisite: LAA 5653.

LAA 6655 Landscape Architectural Design 3 (6). This course will explore a range of land and site design problems at the planning and project scales. Emphasis will be on resolution of complex problems through analysis of natural, physical, and social factors. Prerequisites: LAA 6654 and LAA 6382.

LAA 6835 Interdisciplinary Design Studio 2 (6). Work on selected projects with graduate students in architecture, urban and regional planning and/or building construction. Landscape architecture faculty involvement. Prerequisite: LAA 6655.

LAA 6905 Independent Study (1-3). Individual studies under supervision of laculty, tutor, or advisor. Consent of tutor and faculty chairperson required Prerequisite: Departmental approval.

LAA 6915 Supervised Research (1-5). Each student must engage in supervised work under a principal investigator on either a proposal for funding (RPR or in solicited) or a funded project. Assigned duties must be agreed to by student and PI. prior to beginning the supervised work. Prerequisite: Department approval.

LAA 6935 Graduate Seminars (1-3). Topical seminar designed ospecially for direction by visiting professionals or visiting faculty from other disciplines. It may be developed in cooperation with a private or public sector office, industry, or environmental association. The seminar normally accommodates one design opportunity per offering Prerequisite:

LAA 6936 Special Topics (1-3). Lecture lab course to address current special

topics of interest. Prerequisite: Departmental approval.

LAA 6971 Terminal Project/Thesis (6). A terminal project may be approved in lieu of a thesis where the research format does not fit the conventional thesis format where an interdisciplinary terminal project has been approved by the student's advisor. Prerequisite: LAA 6555

Construction

Oktay Ural, Professor and Acting Chairperson

Gabriel Aurioles, Associate Professor William C. Bassett, Assistant Professor

Bhaskar Chaudhari, Professor Jack Clark, Professor Eugene Farmer, Assistant Professor Julio Otazo, Assistant Professor Vivian Salaga, Assistant Professor

Articulation agreements have been made with Broward Community College and Miami Dade Community College to facilitate the transfer of graduates of appropriate lower division programs.

Only 'C' grades or higher are accepted for transfer of applicable courses from other institutions. No grade below a 'C' will be accepted for graduation in courses.

Students must petition the faculty of the department in writing for any deviation from established policies. The faculty will decide on the cases individual basis.

Construction Management

This program is designed to develop individuals for management, supervisory or technical positions in the construction industry and related business, and for those who would engage in their own construction-related business activities. Emphasis is on the application of state-ol-the-art management technology and business practices to the solution of construction industry problems.

Provision is made in the scheduling of courses to accommodate working students attending classes on a part-time basis while providing a wido rango of courses for full-time students

Degree Bachetor of Science

Lower Division Preparation

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program. FIU undergraduates and transfer students may pursue lower division core courses and some upper division core courses while completing general education requirements. All students are required to meet with faculty advisors prior to registration each semester.

Upper Division Transfer Applicants Completion of an Associate Degree in Construction or related area of study or completion of at least 60 semester hours.

Graduation Requirements

To graduate, students must meet all university requirements and complete both lower division and upper division core requirements including required electives.

Upper Division Program: (65 semester hours minimum)

Major Requirements: (59 semester hours)

Required Electives: (6 semester hours) Professional Office ARC 4270 Practice ARC 4335 Site Development 4 ARC 4590 Structural Design Construction Methods BCN 3240 3 and Equipment BCN 3402 Mechanics of Materials 4 BCN 3611 Construction Cost Estimating 3 Economic Planning BCN 3640 3 for Construction BCN 3703 Management of Construction Projects 3 Construction Costs BCN 3720 and Scheduling 3 BCN 3730 Construction Safety 3 Legal Aspects and **BCN 3740** Construction Labor Law 3 BCN 3762 Codes and 3 Specifications BCN 4260 Quality Control in 3 Construction BCN 4561 Environmental Control i n Buildings BCN 4612C Advanced Estimating 3 **BUL 4111** Business Law I EIN 3354 Engineering Economy and a Construction Accounting course 3

Electives: Selected with an advisor to meet degree requirements and program objectives (minimum semester hours required)

Construction Management

The master's degree is last becoming the entry-level requirement for middle and upper-level management positions in major construction firms - particularly

those firms engaged in high cost projects or doing business on a national or international scale.

The primary goal of this program is to serve the individual, the community, and the industry by providing the advanced skills and particular knowledge assential for success in this highly competitive business.

The program is open to applicants holding the baccalaureate degree in construction management or in allied field. Applicants lacking a background in academic studies or comparable field and office experience will be guided in the selection of appropriate prerequisite courses.

The 36 credit-hour program is divided as follows:

21 credit hours in coursework 9 credit hour in directed electives

6 credit hours in a thesis or individual study of equal rigor.

Degree Requirements

To be eligible for the Master's degree, students must satisfy all general university requirements and meet the requirements of an approved program of study developed in consultation with a graduate advisor and approved by the department Faculty Graduate Studies Committee. Approval will include prerequisite coursework or demonstrated competencies in estimating, costs and scheduling, structural design, site development, economic planning, legal aspects of construction, professional office practice, accounting, and introduction to computers.

	3: (21 semester hours)	
BCN 5716	Superintendence of	
	Construction	3
QMB 6603	Quantitative Methods	
	in Management ¹	3
ECP 6705	Managerial Economics1	3
Approved Gra	duate level Research	3
ARC 5916	Innovations in Building	
	Technology	3
BCN 6642	Value Engineering in	
	Construction	3
BCN 5784	Construction	
	Information Services	3
¹ Refer to the Catalog section under		
College of Business Administration for		
course descriptions and prerequisites		

BCM 6971	inesis 6
	or
BCN 5905	Independent Study
	(Research with
	Construction Application)

DOM COZE

Directed Electives: (minimum 9 semester hours)
BCN 5755 Construction Accounting and Finance
BCN 6785 Computer Estimating and Cost Analysis 3

BCN 5771 Management and Marketing of

Construction Services 3 BCN 6935 Graduate Seminar 3

Course Descriptions

Definition of Prefixes

BCN-Building Construction

BCN 1252 Building Construction Drawing I (4). The laboratory application of Methods and Materials of Construction I. Students prepare plans, elevations, sections, and details appropriate to light construction. Corequisite: ARC 1461

BCN 2256 Building Construction Drawing II (4). The laboratory application of Methods and Materials of Construction II. Students prepare plans, elevations, sections, and details appropriate to general construction. Prerequisite: Some technical drawing background. Corequisite: ARC 2462.

BCN 3240 Construction Methods and Equipment (3). Methods, procedures, and equipment used in residential, commercial, and heavy construction. Equipping the construction plant. Production value analysis. Work affectiveness studies. Prerequisite: Algebra.

BCN 3281 Construction Surveying (3). Principles and practices of surveying as it applies to building construction. Prerequisite: Trigonometry.

BCN 3402 Mechanics of Materials (4). Applications of the principles of mechanics to engineering problems of equilibrium, strength, and stiffness. Topics include equilibrium of forces, stress, strain, torsion, beams, and columns. Prerequisite: MAC 2132 or equivalent.

BCN 3611 Construction Cost Estimating (3). Principles and practices of estimating providing application and drill in surveying quantities of labor and materials for general construction projects: excavation, concrete and formwork, carpentry, masonry, structural steel, lath and plaster, interior finishes. Prerequisites: ARC 1461 and BCN 1252 or equivalent.

BCN 3640 Economic Planning for Construction (3). Nature of construction costs, funding sources and arrangements, capital requirements, bonding, insurance, risk and contingency evaluation, general office operations, and bidding procedures. Prerequisites:BCN 3703 and EIN 3354, or equivalent.

BCN 3703 Management of Construction Projects (3).
Organization and management

Organization and management theory elements of leadership and human supervision, organization, office operations, labor relations, safety, and work improvement, as they relate to project field operations. Prerequisite: BCN 3762 or equivalent.

BCN 3720 Construction Costs and Scheduling (3). The application of the Critical Path Method and Program Evaluation Review Technique to construction planning, scheduled vs actual job expenditures. Cost forecasting. Development of unit prices from field data. Laboratory is included, which consists of computer applications. Prerequisite: BCN 3611 or equivalent.

BCN 3740 Legal Aspects of Construction and Labor Law (3). Legal and business aspects of engineering contracts and specifications in the construction industry. Analysis, study of precedents, and application of contract clauses, including changes, changed conditions, termination, disputes, payments, risk and insurance, inspection, liquidated damages, and technical requirements.

BCN 3761 Specifications Writing (4). Study of methodology for acquisition of information and transmission of technical and legal requirements for construction projects. Preparation of outline specifications, building description, and purchasing specifications. Problems of format, reviewing, and updating. Prerequisites: ARC 2462, BCN 2256, BCN 3762, and BCN 3740 or consent of instructor.

BCN 3762 Codes and Specifications (3). A study of codes required by local, county, and state levels. The writing and reading of specifications: bidding procedures; the relationships between contractors, engineers-architects, owners, subcontractors, and material suppliers. Prerequisite: ARC 2462 or equivalent.

BCN 4260 Quality Control in Construction (3). Quality control as governed by the job inspector, contractor superintendent, architectengineer, building official, and governmental agencies and requirements. Prerequisite: BCN 3762 or equivalent.

BCN 4561 Environmental Control in Buildings (4). A study of concepts and systems for providing optimum thermal, lighting, plumbing, and acoustical conditions, in both commercial and residential buildings. Prerequisites:

Physics, ARC 2462, BCN 2256, or approval of instructor.

BCN 4612 Advanced Estimating (3). Quantity Take-offs and pricing, marketing policies and the application of microcomputers in construction estimating. Prerequisites: BCN 3611 and BCN 3720.

BCN 4905 Directed Independent Studies (VAR). Specialized intensive study in an area of special interest to the student. Prerequisite: Permission of instructor.

BCN 4906 Special Topics (3). For a group of students who wish an intensive study of a topic not otherwise offered in the University. Prerequisite: Permission of instructor.

Student programs of study in the graduate level program are carefully designed and sequenced following consultation with a graduate faculty advisor. Appropriate prerequisite coursework is assigned on the basis of individual needs.

BCN 5716 Superintendence of Construction (3). Design, fabrication, and erection or installation of building components and assemblies for concrete and steel construction projects.

BCN 5755 Construction Accounting and Finance (3) Money management in construction operations: financing, funding, sources of money, cash flow, disbursement, liability and bonding, cost and managerial accounting, and profit analysis.

BCN 5771 Management and Marketing of Construction Services (3) Human effectiveness in marketing construction management services in the public and private sectors

BCN 5784 Construction Information Services (3). The application of information management techniques, including computer hardware and software systems, to the analysis and solution of typical problems in the practice of construction management

BCN 5905 Directed Independent Studies (VAR), Individual studies under supervision of faculty, tutor, or advisor

BCN 5906 Special Topics (VAR), Intensive study for small group of students in a particular topic, or a limited number of topics not otherwise offered in the curriculum

BCN 6473 Systems Approach for Housing Planning (3). Discussions of

basic concepts of systems analysis and systems approach to the field of housing planning. The advantage of systems approach, Case studies.

BCN 6642 Value Engineering in Construction (3). Relationship of costs to time and life cycle of construction projects, and methods to improve the economic value of construction projects.

BCN 6785 Computer Estimating and Cost Analysis (3). Application of computer software to rigorous exercises in construction estimating. Cost information related to construction with applications in current practice.

BCN 6935 Seminar on Construction Management (3). Advanced study of problems, trends, and issues in a time of rapid change in building and management technology. Topics selected or developed by class.

BCN 6971 Thesis (3-6). Students develop a thesis under the direction of a senior faculty mentor and advance and defend their propositions before an audience of peers and scholars.

School of Engineering

Gordon R. Hopkins, Dean Manuel R. Cereijo, Associate Dean

The School offers baccalaureate degree programs in Electrical Engineering, Civil/Environmental Engineering, Industrial Engineering, and Mechanical Engineering Graduate degree programs are offered in Civil Engineering, Electrical Engineering, Environmental Engineering, and Mechanical Engineering, The various curricula for the School are designed to give the student an education for entry into the profession of engineering

Accreditation

The Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET) accredits college engineering programs on a nationwide base Accreditation is important in many areas of the engineering profession. Students wishing more information about accreditation should consult their departmental office or the Office of the Doan. All engineering baccalaureate programs are ABET accredited.

Area of Research

At present, faculty members and students are actively engaged in research in the following areas biomedical, computers, electromagnetism, solid state, microelectronics, computer integrated manufacturing, artificial intelligence, material handling, robotics, laser, computer aided design and manufacturing, energy systems, biomaterials, diagnostic imagery, fracture mechanics, geotechnical, geohydrology, water treatment, solid waste, pollution, and general environmental research

Community Involvement

The School of Engineering maintains close ties with private and public sectors in South Florida. The economic development of the region is among the main objectives of the School's academic programs.

The School's faculty maintains close contact with colleagues in industry as well as with members of the professional organizations, and serve also in different functions in such organizations.

Plan of Study

The subjects basic to all fields of engineering are generally studied while the student is in the first two years of undergraduate study in a preengineering curriculum. Specialized or departmental coursos are taken in the third and fourth years with additional interspersed mathematics and humanistic-social studies. To earn a bachelor's degree in engineering, a student must complete the approved curriculum requirements, and must have a cumulative GPA of at least 2.0 on all engineering courses taken at the University.

The engineering programs include a strong engineering core loundation designed to prepare the prospective engineer not only with a broad base of fundamental courses in mathematics, sciences, and technical knowledge, but also with a solid cultural background in humanities, social sciences, and English. In addition to the core subjects, the student must complete an engineering discipline specialization undor the direction of the respective administrative department.

Admission Preparation

Prospective students who are considering engineering should follow an academic program to meet engineering prerequisites. The student planning to transfer to the engineering program as a junior should follow a pre-engineering program in the first two years of college work. Many courses required by the engineering curriculum are specialized in their content and students need to select lower division courses with care. The normal maximum number of credits

transferred from a community college is sixty semester credits

Freshmen admission to the University is determined by the admission standards of the lower division. The admitted freshmen should discuss their future program intentions with their lower division academic advisor and plan their lower level course selections toward their engineering program goals. The freshmen should have had high school preparatory work of high intellectual quality and of considerable breadth, Specifically, students admitted to the lower division with a degree in engineering as their goal should have the minimum preparatory studies in mathematics (algebra, geometry, trigonometry, analytical geometry, or pre-calculus) and chemistry. Physics and introduction to computers are recommended, but not required. Admitted freshmen students planning to major in an engineering program should contact an engineering advisor as early as possible, preferably before earning 30 semester credit hours.

Admission Policy

The admission policy for the School of Engineering is as follows:

- 1. Any student seeking admission to an undergraduate degree program in the School will be admitted directly by the Admissions Office if the following criteria are met:
- a. The University Admission requirements are met.
- b. A grade of "C" or higher is earned in the following courses: Calculus I, Calculus II, Physics I with Calculus. Chemistry I
- c. The highest grade earned is to be counted for a repeated course, but only one repeat of a course will be considered.
- 2. Students seeking admission to any engineering program but who do not meet the criteria in 1(b) or 1(c), but who meet criteria 1(a) will be admitted to Engineering, Other, and their folders will be submitted to the Department to which they are seeking admission.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Students must have met the prerequisites and corequisites to register for any course. Otherwise, the student will be dropped from the course before the end of the term, resulting in a grade of DR or DF. Students should refer to the Catalog or see an advisor to determine course prerequisites

General Requirements for a Baccalaureate Degree in the Engineering Programs

 Obtain the minimum number of credit hours required by the specific program. Some majors require more than the minimum number of credits. Specific requirements beyond the minimum requirements are described in the sections devoted to the various departments in the College.

2. Complete at least 35 credit hours in the College of Engineering and Design.

3. Attain a minimum GPA of 2.0 in all engineering courses taken at the University.

4. Satisfy the University's general education requirements.

5. Satisfy particular requirements for the major and University requirements for graduation.

Civil and Environmental Engineering

Luis A. Prieto-Portar, Associate

Professor and Chairperson Robert J. Fennema, Assistant

Professor Jeffrey H. Greenfleld, Assistant Professor

Neil Hout-Cooper, Assistant Professor Roberto M. Narbaltz, Assistant Professor

Nelson L. Nemerow. Courtesv Professor

Carl Plaffenberger, Courtesy Associate Professor L. David Shen, Assistant Professor

Vasant H. Surti, Professor Lambert Tall, Professor LeRoy E. Thompson, Professor Oktay Ural, Professor Jose T. Villate, Professor Ton-Lo Wang, Assistant Professor

Degree: Bachelor of Science Lambert Tall, Undergraduate Advisor

The Civil Engineering curriculum provides a background of interrelated subdisciplines of Civil Engineering with the fundamental core subjects of the engineering program. The technical interdisciplinary courses are in the areas of construction, geotechnical, environmental, structures, surveying, transportation, urban planning, and water resources Civil engineers play an essential role in serving people and the living environmental needs of society. These needs relate to shelter, mobility, water, air, and development of land and physical facilities.

To qualify for admission to the

program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program. All other applicants must meet regular University transfer admission requirements.

The basic upper division requirements for the BSCE degree are as follows:

Engineering Sciences

(24 semester hours) **EGN 1120** Engineering Design and Graphics I

EGN 3311 Statics EGN 3321 **Dynamics** Thermodynamics I EGN 3343

EGN 3353 Fluid Mechanics EGN 3353L Fluid Mechanics Laboratory EGM 3520

Engineering Mechanics of Materials EGM 3520L Materials Testing

Laboratory EEL 3003 Electrical Engineering I ESI 3161 Industrial Applications of

Microprocessors

Civil and Environmental Engineering Curriculum (48 semester hours)

CES 3151 Determinate Structural Analysis 3 **CES 4152** Indeterminate Structural Analysis 3 CES 4605 Steel Design 3 CES 4704 Reinforced Concrete Design 3 Civil Engineering ECI 3403 Materials 3 ECI 4305 Geotechnical 3 Engineering I

ECI 4305L Soil Testing Lab ENV 3621 Water Resources Engineering Introduction to ENV 3001 Environmental Engineering

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ENV 3001L Environmental Laboratory SUR 3101 Survevina TTE 4201 Transportation and Traffic Engineering

civil engineering.

Environmental Engineering Option

Plus five technical elective courses in

This option is available to civil engineering students who wish to concentrate in solving environmental problems.

The technical electives may be substituted for the following courses ENV 4104 Elements of Atmospheric

Pollution ENV 4351 Solid Waste Managemer ENV 4404 Water Supply Engineering ENV 4404L Water Supply Laborator

ENV 4514

Sewerage and Waste Water Treatment Wastewater Laboratory

Graduate Programs

Vasant H. Surti, Graduate Studies Coordinator

The Department of Civil and Environmental Engineering offers advanced study for the degree of Master of Science. The areas of specialty are Structures, Mechanics, Geotechnical, Construction, Transportation, Water Resources, and Environmental Engineering. The degree will be a Master of Science in Civil Engineering or a Master of Science in Environmental Engineering depending upon the area of selected graduate study.

Master of Science in Civil Engineering

The Master of Science program in Civil Engineering emphasizes course work as well as research. The student is generally encouraged to specialize in a defined area of civil engineering, but also find it desirable to pursue a more general program of studies combining subject material from different areas of specialization and interdisciplinary related courses. The graduate degree is offered to prepare qualified students for the professional practice of civil engineering. The degree is available in a thesis or non-thesis program. The thesis program entails a minimum of SIX credits for the successful completion of the research and thesis. The non-thesis program must be supported by the successful completion of a project and a report of substantial engineering content for a minimum of three credits. A student must satisfactorily complete a minimum of thirty-six semester credits of acceptable graduate coursework which includes a minimum of twelve credits of graduate courses in the specialty area.

Master of Science in Environmental Engineering

A Master of Science in Environmental Engineering is available to persons interested in graduate work in Environmental Engineering. The program is designed to give graduate students a broad base of knowledge on environmental engineering and on problem solving while permitting them to pursue individual interests. Thus, tho curriculum has a common core of courses but is flexible onough to permit an interdisciplinary approach, if so desired, and allows the student to pursue his or her career goals. A

proposed program of studies will be developed at the time of admission or no later than at the end of the student's first semester. The applicant should hold a Bachelor's degree in engineering, the natural sciences, or a related field. Students who do not meet the stated criteria as developed by the faculty may be considered for admission if they complete the required prerequisites and satisfy any deficiencies.

Master of Science in Environmental and Urban Systems

This program prepares the student to practice urban and regional planning, as a discipline to address social, physical, and economic problems of neighborhoods, cities, suburbs, metropolitan areas, and larger regions. The student must identify problems and opportunities, devise alternative policies or plans and effect their implications.

Admission Policies for all Graduate Programs

A student seeking admission into the graduate program must have a bachelor's degree or equivalent from an accredited institution or, in the case of foreign students, an institution recognized in its own country as preparing students for further study at the graduate level. All graduate applicants, regardless of previous grade point average or degrees, are required to submit their GRE (general) scores. An applicant must present:

1. A 'B' average in upper level undergraduate work, and a 3.0 GPA,

 A combined score of 1000 or higher on the verbal and quantitative sections of the Graduate Record Examination (GRE).

Note: Applicants who have either a 3.0 average or a score of 1000 on the GRE, will be evaluated by the School's Graduate Evaluation Committee lor possible admission.

Grades earned at an institution with non-traditional grading systems will be given every consideration and applicants will be treated equally with students from institutions with traditional grading systems.

Foreign students are admitted as governed by University Admission rules and Board of Rogents Rule 6C-6 09

- Eligible loreign students may be accepted at the appropriate level subject to space and fiscal limitations
- In addition to University admission requirements, foreign students must meet the following requirements as a minimum.

 a. The applicant shall be academically eligible for further study in his or her own country.

b. The applicant whose native language is other than English shall demonstrate proficiency in the English language by presenting a score of 550 or higher on the Test of English as a Foreign Language (TOEFL).

Application Procedures for all Graduate Programs

A student planning to enroll in the graduate program must complete the following:

Submit a Graduate Application for Admission to the Admissions Office. Application forms will be mailed upon request.

- 2. Have a copy of the official transcripts of all previously earned college or university credits sent from the applicant's former institution(s) to the Admission Office.
- Submit scores on the Graduate Record Examination (GRE).
- Foreign students must submit TOEFL scores.
- It should be emphasized that the admission cannot be acted upon until all of the documents and credentials have been received.

Degree Requirements

To be eligible for a Master's degree a student must:

 Satisfy all University requirements for a Master's degree.

- 2. Meet all undergraduate deliciencies, the requirements of the core or the requirements of an approved program of study, or both. This program of study is developed by the student and his or her advisor and must be approved by the Supervisory Committee and by the Coordinator of the Program
- Complete a minimum of 36 semester hours of acceptable graduate level courses.
- 4 Earn a minimum average of 3.0 in all approved courses in the student's program of study
- 5. Complete an acceptable thesis or an engineering project.
- Pass an oral examination that includes an oral defense of the thosis or project
- 7 Master's degree students in Environmental Engineering must, in addition.
- a take ENV 6615 Environmental Impact Assessment,
- b. select, with advisor approval, at least two courses from the following EES 5506. Occupational Health

ENV 5006 Noise Control

ENV 5126 Air Quality
Management

ENV 5356 Solid Wastes ENV 5666 Water Quality Management

 c. take a mathematics course as determined by the advisor for the thesis or project.

d. take at least one credit of ENV 6935 Environmental Graduate Seminar e. complete a minimum of nine

credit hours of courses at the 6000-level f. complete eight credit hours of ENV 6971 Thesis, or two credits of ENV 6916 Engineering Project.

Grades and Credits

No course in which a grade below a 'C' is earned may be counted toward the Master ol Science in Civil Engineering or in Environmental Engineering.

Transfer Credit

The student may receive permission to transfer up to a maximum of six semester hours of graduate credit provided that: (1) the course(s) were taken at the graduate level at an accredited college or university; (2) grade(s) of 'B' or higher were earned; (3) the course(s) are judged by the faculty advisor, Supervisory Committee, Coordinator of the Program, and Dean to be relevant to the student's graduate program; (4) the credits were not used toward another degree; and (5) the credits(s) were completed within seven years immediately preceding the awarding of the degree.

Credit is not transferable until the student has earned 12 semester hours in the Civil Engineering or Environmental Engineering programs.

Time Limit

All work applicable to the Master's degree, including transfer credit, must be completed within seven years immediately preceding the awarding of the degree.

Course Descriptions

Definition of Prefixes

CES-Civil Engineering Structures; ECI-Engineering, Civil; EGM-Engineering, Mechanics; EGN-Engineering, General; ENV-Engineering, Environmental; SUR-Surveying and Related Areas; TTE-Transportation and Tralfic Engineering

CCE 5035 Construction Engineering Management (3). Course will cover construction organization, planning and implementation; impact and leasibility studies; contractual subjects; liability and performance; the responsibility of owner, contractor and engineer. Prerequisite: Permission of instructor.

CCE 5505 Computer Integrated
Construction Engineering (3). Course
covers the discussion of available

software related to Construction Engineering topics; knowledge based expert systems and their relevance to construction engineering planning and management. Perequisite: Permission of instructor.

CES 3151 Determinate Structural Analysis (3). To introduce the student to the basic concepts and principles of structural theory relating to statically determinate beams, arches, trusses and ngid frames, including deflection techniques. Prerequisite: EGM 3520

CES 3949 Co-Op Work Experience (3). Supervised full-time work experience in engineering field. Limited to students admitted to the co-op program with consent of advisor. Evaluation and reports required.

CES 4152 Indeterminate Structural Analysis (3). To introduce the student to the basic concepts and principles of structural theory relating to statically indeterminate beams, trusses and rigid frames; including Slope Deflection, Moment Distribution, and Matrix Methods. Prerequisite: CES 3151.

CES 4605 Steel Design (3). The analysis and design of structural elements and connections for buildings, bridges, and specialized structures utilizing structural steel. Both elastic and plastic designs are considered. Prerequisite: CES 3151.

CES 4704 Reinforced Concrete Design (3). The analysis and design of reinforced concrete beams, columns, slabs, retaining walls and lootings; with emphasis corresponding to present ACI Building Code. Introduction to prestressed concrete is given. Prerequisite or Corequisite: CES 4152.

CES 4949 Co-Op Work Experience (3). Supervised full-time work experience in engineering field. Limited to students admitted to the co-op program with consent of advisor. Evaluation and report required. Prerequisite: ECI 3403. Corequisite: CES 4152.

CES 5005 Computer Applications in Structures (3). Discussion and application of available computer programs, techniques and equipment for the analysis, design and drafting of structures. Prerequisities: CES 4605 and CES 4704.

CES 5106 Advanced Structural Analysis (3). Extension of the fundamental topics of structural analysis with emphasis on energy methods and methods best suited for non-prismatic members. Prerequisite: CES 4152. CES 5606 Advanced Structural Steel Design (3). Extension of the analysis and design of structural elements and connections for buildings, bridges, and specialized structures utilizing structural steel. Prerequisites: CES 4152, CES

CES 5716 Prestressed Concrete
Design (3). The behavior of steel and
concrete under sustained load. Analysis
and design of pre-tensioned and posttensioned reinforced concrete members,
and designing these members into the
integral structure. Prerequisite: CES
4704.

CES 5801 Timber Design (3) The analysis and design of modern wood structures. Effect of plant origin and physical structure of wood on its mechanical strength; lasteners and their significance in design.

CES 5905 Directed Independent Study (1-3). Individual conferences, assigned readings, and reports independent investigations selected by the student and professor with approval of advisor.

CGN 5935 Professional Engineering (Civil) Review (4). Prepares qualified candidates to take the P.E. written examination in the filed of Civil Engineering. Reviews hydraulics, hydrology, water supply and wastewater, geotechnics, structures, concrete and steel design, etc.

ECI 3403 Civil Engineering Materials (3). A study of the principal materials used for engineering purposes with special attention to their mechanical properties, the importance of these properties, and the appropriate tests to assure the quality of these materials. Prerequisite: EGM 3520.

ECI 4171 Heavy Construction (3). Contractor's organization, contracts, services, salety, planning and scheduling. Equipment and their economics. Special project applications, cofferdams, dewatering, river diversions, tunnelling.

ECI 4305 Geotechnical Engineering I (3). Engineering geology, soil properties; stresses in soils and failures; consolidation and settlement; compaction, soil improvement and slope stabilization. Prerequisite: EGM 3520.

ECI 4305L Soli Testing Laboratory (1). Laboratory experiments to identify and test behavior of soils and rocks. Prerequisite: EGN 3520. Corequisite: ECI 4305.

ECI 4312C Geotechnical Engineering II (4). Principles of foundation analysis

and design: site improvement for bearing and settlement, spread lootings, mat loundations, retaining walls/earth, cofferdams, piles, shafts, caissons, tunnels, and vibration control. Computer applications. Prerequisite: CES 4704.

ECI 4930 Special Topics in Civil Engineering (1-4). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

ECI 5235 Open Channel Hydraulics (3). Theoretical treatment and application of hydraulics. Flow in open channels with special reference to varied flow, critical state hydraulic jump, and wave formation. Prerequisites: EGN 3353 and ENV 3621.

ECI 5346C Geotechnical Dynamics (4).
Analytical, field, and laboratory techniques related to vibration problems of foundations, wave propagations, behavior of soils and rocks, earth dams, shallow and deep loundations.
Earthquake engineering Prerequisite: ECI 4312.

ECI 5930 Advanced Special Topics in Civil Engineering (1-3). A course designed to give groups of students an opportunity to pursue special studies in an advanced topic of Civil Engineering not otherwise offered Prerequisite: Permission of instructor

ECI 6317 Theoretical Geotechnical Mechanics (3). A continuum mechanics interpretation of geotechnical engineering: soil rheology: theories of yielding: failure and plastic stability Analyfical and numerical modeling of non-linear properties. Prerequisites: ECI 5324 and MAP 3302. Suggested corequisite: MAP 4401

ECI 6326 Advanced Foundations
Engineering (3). Computer applications
involving the numerical analysis and
design of complex soil-structure
interactions: highway and airfield
pavements, deep foundation groups and
NATM tunnelling techniques
Prerequisite: ECI 4312

ECI 6616 Advanced Groundwater Hydraulics (3) Groundwater flow through porous medium Velocity holograph, conformal mapping, Schwartz-Christoffel transformation, numerical methods Prerequisite ECI 6617.

ECI 6617 Groundwater Hydrology (3) Groundwater occurrence, movement, hydraulics, and application to groundwater flow, including saltwater intrusion, groundwater recharge and drainage, seepage through earth dams. Prerequisite: ENV 3621.

ECI 6637 Statistical Hydrology (3). Quantitative determination of surface water runoff from a statistical approach. Prerequisite: ENV 3621.

ECI 6916 Engineering Project (1-3). Independent research work culminating in a professional practice oriented report for the requirements of the non-thesis option of the M.S. degree. Prerequisites: Filteen graduate credits and approved project plan.

ECI 6939 Graduate Seminar (1-3). An examination of recent technical findings in selected areas of concern. Emphasis is placed on presentations (oral and written), research activities, readings, and active discussions among participants. Prerequisite: Permission ol graduate's advisor.

ECI 6971 ThesIs (1-6). The student lollowing the thesis option of the Master's degree will pursue research through this course. The research work will culminate with an acceptable thesis. Pererequisite: Permission of graduate's thesis advisor.

EES 5506 Occupational Health (3). Effects, assessment, and control of physical and chemical factors in man's working environment, including chemical agents, electromagnetic radiation, temperature, humidity, pressures, illumination, noise, and vibration. Prerequisite: Admission to graduate program.

EES 5601C Noise Control Engineering (3). Fundamentals of sound and noise. Health hazards and other effects. Measurement and noise control in transportation, construction, and other environments. Prerequisite: Admission to graduate program.

EES 6505 Environmental and Human Factors (3). Effects, assessment and control of physical and chemical factors in the natural and man-made environments, including noise, electromagnetic radiation, air and water pollution, public and occupational health, vector control, communicable diseases Prerequisito: Admission to graduate program

EES 6508 Occupational Health and Toxicology (3). A continuation of EES 5506 Investigation of toxic substances in air, water, and food in the industrial environment. Prerequisite EES 5506

EGM 5111 Experimental Stress Analysis (3). Course covers the necessary theory and techniques of experimental stress analysis and the primary methods employed: brittle coating, strain gauges, photoelasticity and Moire. Prerequisites: EGN 3520, EGM 5653

EGM 5351 Finite Element Methods in Mechanica (3). Matrix techniques and variational methods in solid mechanics; single element, assemblage and generalized theory; non-linear analysis; applications in structural and soil mechanics, torsion, heat conduction and hydroelasticity, etc. Prerequisite: EGM 3520.

EGM 5421 Structural Dynamics (3). Fundamentals of free, forced, and transient vibration of singles and multidegree of freedom structures, including damping of lumped and distributed parameters systems. Prerequisite: MAP 3302. Corequisite: EGM 5533.

EGM 5533 Advenced Mechanics of Materials (3). Extension of the fundamental principles of engineering mechanics to include curved beams, warping, stability, etc. Prerequisites: CES 4152, MAP 3302.

EGM 5653 Theory of Elasticity (3). An advanced course covering the concepts of stress and strain tensors, indicia notation, transformation of stresses, compatibility equations, the stress function and the closed form solution of some important continuum mechanics problems. Prerequisites: EGN 3520, MAP 3302.

EGM 6675 Advanced Plastlotty (3), Formulation of the plastic stress-strain relationships; Prandtl-Reuss equations; yield criteria; Plane Plastic Flow and the Plane Slip Line Field Theory; limit analysis and basics of creep Preroquisite EGM 3530

EGM 6736 Theory of Elastic Stability (3). Course will cover the beam-column problem, elastic and inelastic buckling of bars and frames; review of experimental work and design formulas, buckling of rings, curved bars and arches, bending and buckling of thin plates and thin shells Prorequisites EGM 3520

EGM 6796 Theory of Plates and Shells (3). A course covering the concepts of thin plates with small deflections, thin plates with large dellections, thick plates, the Membrane theory of Shells, and the General Theory of Cylindrical Shells Prerequisites: EGN 3520

EGN 1120C Engineering Graphics and Design (3). Introduction to elementary design concepts in engineering, principles of drawing, descriptive

geometry, pictorials and perspectives and their computer graphics counterpart.

EGN 2030 Ethics and Legal Aspects in Engineering (3). Codes of ethics, professional responsibilities and rights, law and engineering, contracts, torts, evidence.

EGN 3311 Statics (3). Forces on particles, equilibrium of forces, moments, couples, centroids, section properties, and load analysis of structures.

Prerequisites: PHY 3049, MAC 3413.

EGN 3353 Fluid Mechanics (3). A study of the properties of fluids and their behavior at rest and in motion. Continuity, momentum, and energy principles of fluid flow. Prerequisite: EGN 3321. Corequisite: EGN 3353L

EGN 3353L Fluid Mechanics Laboratory (1). Application of fluid mechanics principles in the laboratory. Experiments in surface water, groundwater and pipe flow. Prerequisite: EGN 3353.

EGN 3520 EngIneerIng Mechanics of Materials (4). Analysis of axial, torsional, bending, combined stresses, and strains. Plotting of shear, moment and dellection diagram with calculus applications and interpretations. Prerequisites: MAC 3412 and EGN 3311.

EGN 4116 Engineering Graphics II (3). Computer graphical methods in engineering analysis and design. Problem solving via FORTRAN with emphasis on hands-on experience with inter-active computers (AutoCad and Micro Station of InterGraph, etc.). Prerequisite: EGN 1120.

EGN 5990 Fundamentals of Englneering (FE) Review (4). Prepares upper level engineering students to take the Fundamentals of Engineering (FE) State Board examinations. Reviews chemistry, computers, statics, dynamics, electrical circuits, fluid mechanics, mechanic of materials, material science and thermodynamics.

EGN 5455 Numerical Methods in Engineering (3). Study of procedures that permit rapid approximate solutions, within limits of desired accuracy, to complex structural analysis. Prerequisite: CES 4152.

ENV 3001 Introduction to Environmental Engineering (3). Introduction to environmental engineering problems; water and wastewater treatment, air pollution, noise, solid and hazardous wastes. Prerequisite: ENV 3621 or permission of instructor. Corequisite: ENV 3001L.

ENV 3001L Introduction to Environmental Engineering Laboratory (1). A corequisite to ENV 3001. Practical applications of the theory learned in the course and experience in detecting and measuring some environmental problems. Prerequisite:

Corequisite: ENV 3001.

ENV 3621 Water Resources
Englneering (3). Hydrology, probability,
ground and surface water studies.
Closed conduit flow and hydraulic
machinery. Prerequisites: EGN 3353

ENV 3621 or permission of instructor.

ENV 3949 Co-Op Work Experience (3). Supervised full-time work experience in engineering field. Limited to students admitted to the co-op program with consent of advisor.

and STA 3033.

ENV 4061 Public Health Engineering (3). Study of the physical, chemical, and biological changes in the environment; and the application of science and engineering to improve environmental quality. Prerequisites: PHY 3049, CHM

ENV 4104 Elements of Atmospheric Pollution (3). The air pollution problem, causes, sources, and effects. Historical development. Physical, political, and economic lactors in its control. Prerequisites: PHY 3049, CHM 1046.

ENV 4351 Solid Waste Management (3). Sources, amounts and characteristics of solid wastes; municipal collection systems; method of disposal; energetic consideration in the recovery and recycle of wastes. Prerequisites: PHY 3049, CHM 1046.

ENV 4404 Water Supply Engineering (3). Quantity, quality, treatment, and distribution of drinking water. Prerequisites: CHM 1046, ENV 3621, and CHM 1046.

ENV 4404L Water Laboratory (1). Laboratory exercises in the physical, chemical, and bacteriological quality of potable water. Prerequisites: CHM 1046, ENV 3621. Corequisite: ENV 4404.

ENV 4514 Sewerage and Wastewater Treatment (3). Collection and transportation of wastewater, design of sanitary and storm sewers. Physical, chemical, and biological principles of wastewater treatment. Prerequisite: CHM 1046, ENV 4404, or permission of instructor.

ENV 4514L Wastewater Laboratory (1). Laboratory exercises in the physical, chemical, and bacteriological quality of raw and treated wastewaters.
Prerequisites: CHM 1046, ENV 3621.
Corequisite: ENV 4514.

ENV 4930 Special Topics in Environmental Engineering (1-4). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

ENV 4949 Co-Op Work Experience (3). Supervised full-time work experience in engineering field. Limited to students admitted to the co-op program with consent of advisor. Evaluation and reports required.

ENV 5007 Environmental Planning (3). Ecological principles necessary to preserve a quality environment are presented by means of planning policies, processes, and environmental indicators. Emphasis will be placed on the impact of growth on environmental quality. Prerequisite: Permission of instructor.

ENV 5008 Appropriate Technology for Developing Countries (3). The use of appropriate technology in developing countries. Local traditions and adaptations. Local materials in housing, food production, cottage industries. Cooperatives and training.

ENV 5062 Environmental Health (3). Study of the control and prevention of environmental-related diseases, both communicable and non-communicable, injuries, and other interactions of humans with the environment. Prerequisite: Permission of the instructor.

ENV 5115 Air Pollution Control (3). Air pollution control-devices, principles, efficiencies, costs. Gas scrubbers, eflectrostatic precipitation, thermal deposition, filters, condensers, alterburners. By-product recovery. Stoichiometry of combustion mixtures and basic industrial plant designs are discussed. Prerequisite: ENV 4104 or ENV 5126.

ENV 5116 Air Sampling Analysis (3). Practical laboratory work and theoretical aspects involved in a wide range of air sampling and analysis systems. Critical comparison and examination of methods and instrumentation. Source testing, instrumental sensitivity, applicability and remote sensing systems. Prerequisite: ENV 5126 or ENV 4104.

ENV 5126 Air Quality Management (3). The air pollution problem, principal types, sources and dispersion of pollutants. Physical, economic, and legal aspects of control of atmospheric pollutants. ENV 5356 Solid Wastes (3). In-depth study of the solid waste problem. Topics include municipal, industrial, and agricultural generation of wastes; municipal collection systems; methods of disposal, hazardous wastes, and energetic considerations in the recovery and recycle of wastes.

ENV 5512 Water and Wastewater Analysis (3). Relevance of the main quality parameters and their measurements by wet chemistry and analytical equipment. Includes BOD, COD, TOC, CO, TSS, VSS, alkalinity, accidity, phardness, ammonia, TKN, NO₂, NO₃, PO₄, etc. Prerequisites: ENV 5666, CHM 1046, and CHM 1046L. Corequisite: ENV 5512L.

ENV 5512L Water and Wastewater Analysis Laboratory (1). Experiments are conducted which measure gross organic pollution indicators, suspended solids, conductivity, alkalinity, acidity, pH, nitrate, nitrite, TKN, ammonia, total phosphates, chlorine residual and chlorine breakpoint. Prerequisites: ENV 5666, CHM 1046, and CHM 1046L. Corequisite: ENV 5512.

ENV 5517 Water and Wastewater Treatment (3). Wastewater collection systems. Integration of unit operations into the planning and design of treatment plants, including sludge handling and disposal. Prerequisite: Permission of instructor.

ENV 5520 Vector and Pest Control (3). Effects and management of public health vectors and communicable diseases. Prerequisite: ENV 5500 or permission of instructor.

ENV 5659 Regional Planning Engineering (3). Theories of urban and regional growth; collective utility analysis; input-output models in planning; application of linear programming to regional social accounting, economic base analysis. Prerequisito. Computer Programming or permission of instructor.

ENV 5661 Water Quality Indicators (3) Ecological studies of micro and macro organisms which are indicators of water quality. Emphasis of bioassays and early warning systems. Preroquisito: Permission of instructor

ENV 5662 Blotogleat Monitoring of Freshwater Ecosystems (3) The use of aquatic insects and other invertebrates to monitor changes in the aquatic environment. The ocological aspects of aquatic insects in relation to pollution stross are assessed Prerequisite: ENV 5661 or permission of instructor. ENV 5666 Water Quality Management (3). Predicting and evaluating the effect of human activities on streams, lakes, estuaries, and ground waters; and the relation of human activities to water quality and protection of water resources. Prerequisite: Permission of instructor.

ENV 5905 Independent Study (1-3), Individual research studies available to academically qualified students on graduate status.

ENV 5930 Special Topics In Environmental Engineering (1-3). Specific aspects of environmental technology and urban systems not available through formal course study. Open to academically qualified students only.

ENV 6045 Environmental Modeling (3). Evaluation of regional resources, environmental stresses, and considerations in regional systems; systems analysis in environmental management and its relation to decision making; modeling of air and water systems. Prerequisite: Computer programming or permission of the instructor.

ENV 6510 Advanced Unit Operations I (3). Theory and design of physical, chemical, and biological unit operations as applied to the advanced treatment of water and wastewater. Prerequisite: ENV 4514 or equivalent.

ENV 6511 Advanced Unit Operations II (3). A continuation of ENV 6510 including the re-use of treated wastewaters and of sludges. Prerequisite: ENV 6510.

ENV 6511L Advanced Unit Operations II Lab (1). Bench scale experiments for scaling-up and designing the following water and wastewater processes: sedimentation, coagulation, filtration, adsorption, exidation and gas transfer. Pererequisite: ENV 6510 Corequisite: ENV 6511.

ENV 6516 Advanced Treatment Systems (3), Integration of unit operations into advanced treatment systems for waters and wastewater Prerequisite: ENV 6511.

ENV 6518 Industrial Wastewater Treatment (3) Characteristics and composition of industrial wastewaters Sampling techniques and analyses Water conservation and re-use. Joint industrial-commercial collection and treatment of wastewaters. Prerequisite ENV 6516. ENV 6615 Environmental Impact Assessment (3). An examination of alternative techniques useful for analysis and environmental impacts of man's activities. Prerequisite: Permission of

ENV 6916 Engineering Project (1-2). Individual work culminating in a professional practice-oriented report suitable for the requirements of the M.S. degree-project operation. Only three credits are applicable towards degree. Prerequisite: Completion of 20 graduate credits.

ENV 6935 Graduate Environmental Seminar (1-3). The course consists of oral presentations made by students, guests, and faculty members on current topics and research activities in environmental and urban systems.

ENV 6971 Thesis (1-6). Research for Master's thesis

SUR 3101 Surveying (3). Computations and field procedures associated with the measurement of distances and angles using tape, level, transit, EDMs, and total station. Laboratory is included with field measurements.

SUR 4201 Route Surveying and Design (4). To introduce the student to the current design concepts criteria and techniques in geometric design of highways. The theory, field collection of data, office calculations, the design and drawings required for the geometric design of a highway. Prerequisite. COP 3112

TTE 4201 Transportation and Traffic Engineering (3). Transportation characteristics, transportation planning, traffic control devices, intersection design, network design, research.

Prerequisites. STA 3033 and SUR 4201.

TTE 5015 Applied Statistics in Traffic and Transportation (3). Civil and Environmental Engineering statistics methods as applied to traffic and transportation are covered. Topics include: significance tests, standard distributions, analysis of variance, and regression analysis. Prorequisite Graduate standing

TTE 5105 Pavement Design (3)
Analysis and design of sub-base, base, and pavement of a roadway
Discussions of flexible pavement and rigid pavement as structural units
Boussinesq's approach. Westergaard's theory Beams on Elastic Foundations.
Prorequisites: ECI 4312 and CES 4704

TTE 5215 Urban Traffic Characteristics (3). Speed and volume

studies, stream characteristics, traffic flow theory, accident characteristics. Prerequisite: TTE 4201.

TTE 5505C Urban Traffic Workshop (3). Selected laboratory problems related to urban traffic. Prerequisite: TTE 4201.

TTE 5506 Urban Mass Transit and Transportation Planning (3). Models of urban growth, population forecasts, trip generation, trip distribution, and trip assignment models, model split, system evaluation, transit marketing.

Prerequisite: TTE 4201.

TTE 5526 Alrport Planning and Design (3). Theory and principles of airport planning and design, include both general aviation and major commercial airports. Design projects required. Prerequisite: TTE 5105 or consent of instructor.

TTE 5606 Transportation Systems Modeling and Analysis (3). Modeling and analysis techniques in ransportation. Linear Programming, queueing theory, decision making techniques. Prerequisite: TTE 4201.

TTE 5701 Advanced Geometric Design of Highways (3). Parameters governing the geometric design of highways; curve super-elevation; widening on highway curves; elements of intersection design; design of interchanges; use of AASHO design guidelines. Design project required. Prerequisite: SUR 4201.

Electrical Engineering

James Story, Associate Professor and Chairperson

Jean Andrian, Assistant Professor Tadeusz Babil, Associate Professor Manuel Cereljo, Professor and

Associate Daan Mark Hagman, Associate Professor Malcom Helmer, Associate Professor Grover Larkins, Assistant Professor Osama Mohammed, Associate Professor

Vijay Raman, Assistant Professor Gustavo Rolg, Associate Professor Laura Rulz, Instructor Plerre Schmidt, Professor Wunnava Subbarao, Professor Kang Yen, Assistant Professor

The Electrical Engineering curriculum provides an emphasis toward engineering concepts and design in the varied and rapidly expanding fields of electrical engineering with the lundamental core subjects of the engineering program. The Department of

Electrical Engineering seeks to attract students who possess a verbal and written command of the English language, who exhibit logical thinking, creativity, imagination, and persistence. They should have proved their academic excellence in mathematics, chemistry, and physics.

At the undergraduate level, the basic required program of instruction in fundamental theory and laboratory practice is balanced by a broad range of electives in such fields as computers, communication systems, control systems, power systems, and integrated electronics. Students, with the counsel and guidance of faculty advisers, design their electives program around their own special interest.

Degree: Bachelor of Science

Lower Division Preparation for Transfer Students

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours. and must be otherwise acceptable into the program. For transfer applicants, at least 60 hours in pre-engineering which includes FORTRAN, Calculus I & II, Physics I & II and Labs with Calculus, Chemistry I and Lab, Statics, English Composition I & II, Speech, a two course sequence from the same discipline subject area in Social Science (Economics), and a two course sequence from the same discipline subject area in Humanities, and a Gordon Rule course.

Upper Division Program

The program includes Dynamics, Engineering Economy, Professional Ethics, Advanced Humanities or Social Science, Differential Equations, Multivariable Calculus, Technical Writing, Thermodynamics or Materials of Engineering, Signals and Systems, three general electives, and the following major courses:

Electrical Engineering Curriculum (Major only): (52 semester hours)

EEL 3111	Circuits I	3
EEL 3111L	Circuits Lab	1
EEL 3303	Electronics I	3
EEL 3303L	Electronics I Lab	1
EEL 3112	Circuits II	3
EEL 3396	Introduction to	
	Solid State	3
EEL 3514	Communication	
	Systems	3
EEL 3657	Control Systems	3
EEL 3712	Logic Design I	3
EEL 3712L	Logic Design I Lab	1
EEL 4304	Electronics II	3
EEL 4304L	Electronics II Lab	1

EEL 4213	Power Systems I	3
EEL 4213L	Energy Conversion	
	Lab	1
EEL 4314	Integrated Circuits	
	and Systems	3
EEL 4314L	Integrated Circuits	
	and Systems Lab	1
EEL 4709	Computer Design	3
EEL 4410	Fields and Waves	3
EEL 4611L	Systems Lab	1
Electrical Eng	ineering Electives: Three	
courses	•	9

Any course taken without the required prerequisites and corequisites will be dropped automatically before the end of the term, resulting in a grade of 'DR' or 'DF'

Students who are dismissed from the University due to low grades, may appeal to the Dean for reinstatement. A second dismissal results in no possibility of reinstatement.

Master of Science In Electrical Engineering

Graduate Program

The Department of Electrical Engineering offers both thesis and nonthesis options for the Master's Degree. A student seeking the Master's degree with or without thesis is required to pass a comprehensive oral or written examination.

All work counted for the Master's degree must be completed during the five years immediately preceding the date of admission.

The program shall provide a broad education, covering more than one field followed by in-depth studies of areas of interest. Multi-disciplinary programs such as Computer Engineering, Systems Engineering, and Biomedical Engineering shall be permitted.

Admission Requirements

The following is in addition to the University's graduate admission requirements.

A student seeking admission into the graduate program must have a Bachelor's degree in Electrical Engineering or equivalent from an accredited institution or, in the case of foreign students, an institution recognized in its own country as preparing students for further study at the graduate level.

An applicant must present a 3.0 GPA in upper level work and a combined score of 1000 on the Graduate Record Examination (GRE).

 Applicants who do not meet the above criteria will be evaluated by a committee for possible admission.
 Graduate Requirements: All matters concerning academic regulations and policies are decided by the Dean of the School. The decisions will be made on the advice and recommendations of the specific Department Chairperson of the unit of the program, and by the Committee on Admission and Academic Performance.

The degree will be conferred when the following conditions have been met:

 Recommendation of the advisor and faculty of the School which is awarding the degree.

Certification by the Dean of the School that all requirements of the degree being sought have been completed.

3. A GPA of at least 3.0 has been earned for certain courses required by the program.

4. Met the undergraduate deficiencies, if any existed in the student's graduate program, as additional courses toward the degree.

5. Completed a minimum of 36 semester hours of graduate level courses (not more than nine graduate semester hours with a grade of "B" or higher can be transferred from other accredited institutions).

Completed an acceptable graduate thesis if required of the

selected program.

7. Students must maintain an overall GPA of 3.0. No grade below 'C' will be accepted in a graduate program. In the event that a student is placed on a probationary status, he or she must obtain a directed program from his or her advisor and approved by the Dean prior to continuing further course work toward the degree. The student must satisfy the directed course of action within the prescribed time limit, otherwise he or she will be academically dismissed.

Thesis Option

A student shall complete 36 semester credit hours of technical course work including a maximum of six semester credit hours and minimum of three semester credit hours of EEL 6971-Master's Thesis

The Supervisory Committee shall determine the appropriate number of thesis hours a student shall be required to take for the thesis. Thus, 30 or more semester credit hours of course work is required.

The course requirements include a minimum of 12 hours of 6000 level course credit and a minimum of nine hours at the 5000-6000 level in Electrical Engineering. No more than six hours of Individual Work (EEL 6905) may be counted toward the degree

Upon the successful completion of all coursework, including thesis work, and after the determination by the student's advisor that he or she has completed the objectives set for the thesis research, the student must pass a final oral examination which is primarily a defense of the thesis research. The candidate should limit the presentation to 40 minutes, unless told differently by the advisor. The essence of the thesis should be presented in the same manner as that of a technical paper at a conference.

The student must submit the thesis to the examining committee and department chairperson at least ten days prior to the oral examination date. Upon passing the oral examination, and completion of any changes or additions, or both, as required by the committee, each member of the committee will sign a special front page available in the Department. Hardcover bound copies should be submitted to the student's advisor and to the Library The student should consult with the advisor for approval of all coursework prior to registration.

Non-ThesIs Option (By petition only) A student shall complete 36 semester credit hours of technical course work with a maximum of six semester credit hours of Individual Work (EEL 6905). The course requirements include a minimum of 12 semester credit hours of 6000-level course credit and a minimum of 12 semester credit at the 5000-6000 level in Electrical Engineering

The candidate is required to pass a comprehensive final examination. This examination is given near the end of the candidate's final semester by a committee composed of three faculty members appointed by the Department. A student who fails the examination may not attempt it again until one semester has elapsed or until additional work prescribed by the examining committee is completed. The student may retake the examination only once. The examination will test the student's general ability in his or her areas of study as determined by the student's supervisory committee.

Course Requirements

Common Core

Select three courses with advisor

approval		
EEL 5482	Fields and Waves	
	Engineering	3
EEL 5500	Digital Communications	
	Systems I	3
EEL 5725	Digital Systems	
	Engineering I	3
EEL 5171	Advanced System	
	Theory	3
EEL 6261	Power Systems	
	Engineering	3
EEL 6311	Advanced Electronics	
	Systems I	3

Select two co	ourses with advisor appro	val
MAA 4211	Advanced Calculus	3
MAA 4402	Complex Variables	3
MAD 5405	Numerical Methods	3
MAP 4401	Advanced Differential	
	Equations	3
MAP 5117	Math and Statistics	
	Modeling	3
STA 5546	Probability Theory I	3
STA 5447	Probability Theory II	3
STA 5800	Stochastic Processes	
	for Engineering	3

The above two lists may be changed or expanded by the committee. Remaining course work will be selected by the student and his advisor based on the student's career objectives.

Course Descriptions

Definition of Prefixes

CDA-Computer Design Applications EEL - Engineering: Electrical

CDA 4400 Computer Hardware Analysis (3). The study of hardware functions of a basic computer. Topics include logic elements, arithmetic logic units, control units, memory devices, organization and I/O devices (for non-EE majors only). Prerequisites: CDA 4101 and MAD 3104.

EEL 3003 Electrical Engineering I (3). For non-EE majors. Basic principles of DC and AC circuit analysis, electronic devices and amplifiers, digital circuits, and power systems. Prerequisite. MAC 3312. Corequisite. MAP 3302.

EEL 3111 Circuits I (3). Introductory electronics courses dealing with the DC, AC and transient electrical circuit analysis, involving passive elements such as resistors, capacitors, inductors, transformers, etc Prerequisites: MAC 3312, PHY 3049, Corequisites: MAP 3302, FORTRAN, EEL 3111L.

EEL 3111L Circuits Lab (1). This lab introduces basic test equipmont, oscilloscopes, multimeters, power supply, function generator, etc., and uses this equipment in various experiments on resistors, capacitors, and inductors. Corequisite: EEL 3111

EEL 3112 Circuits II (3). Application of operational methods to the solution of electrical circuit effect of poles and zeros on the response and transfer function of electrical networks. Laplace and Fourier transforms, poles, zeros, network parameters Prerequisites EEL 3111, MAP 3302, FORTRAN, and EEL 3135.

EEL 3135 Signals and Systems (3) Study of electrical signals and linear systems. Use of Fourier analysis in electrical and electronic systems. Introduction to probability theory and Z transform applications. Prerequisites or Corequisites: MAC 3313, MAP 3302.

EEL 3160 Computer Applications in Electrical Engineering (3). Interactive techniques of computers to simulate and design the electrical engineering circuits and systems. Prerequisites: Permission of instructor and FORTRAN.

EEL 3303 Electronics I (3). Introductory electronics course dealing with the properties of basic electronic devices such as diodes, transistors, Fets, SCRs, etc., and their circuit applications. Prerequisites: EEL 3111, FORTRAN. Corequisites: EEL 3303 and EEL 3303L.

EEL 3303L Electronics I Laboratory (1). Designing, building, and testing electronic circuits which use diodes, transistors and field effect transistors. Prerequisite: EEL 3111. Corequisite: EEL 3303.

EEL 3396 Introduction to Solid State Devices (3). Introduction to the physics of semiconductors; charge carrier statis-tics and charge transport in crystalline solids. Basic operations of solid state devices including p-n junction diode, and the bipolar junction transistor. Prerequi-site: MAP 3302. Corequisite: EEL 3111.

EEL 3514 Communication Systems
(3). An introductory course in the field of analog communication systems.

Transmitters, receivers, and different modulation and demodulation techniques are studied. A basic treatment of noise is also included. Prerequisite: EEL 3135.

Corequisite: EEL 3112.

EEL 3657 Control Systems I (3).
Analysis of linear time-invariant leedback control systems. System modeling, time and frequency-domain response, stability and accuracy. Analysis by use of Root- Locus, Bode plots, Nyquist diagram. Prerequisite: EEL 3112.

EEL 3712 Logic Design I (3). Boolean Algebra. Binary number systems. Combinational logic design using SSI, MSI and LSI. Sequential logic design. Prerequisite: EEL 3111. Corequisite: EEL 3712L.

EEL 3712L Logic Design I Lab (1). Laboratory experiments, including gates, combinational networks, SSI, MSI, LSI, and sequential logic design. Corequisite: EEL 3712.

EEL 4011C Electrical Engineering Systems Design (1-3). Design of a complete EE system including use of design methodology, formulation, specifications, alternative solutions, feasibility, economic, reliability, safety ethics, and social impact. Prerequisites: Senior standing and two EE electives.

EEL 4140 Filter Design (3).
Approximation techniques. Active RC second order modules. Low pass filters, bandpass filters, high pass filters, notch filters are studied in detail. Sensitivity and high order filters. Design and laboratory implementation.
Prerequisites: EEL 3657, EEL 4304.

EEL 4213 Power System I (3). Introductory course to power systems components; transformer, induction machines, synchronous machines, direct current machines, and special machines. Prerequisite: EEL 4410. Corequisites: EEL 3112, EEL 4213L.

EEL 4213L Energy Conversion Lab (1). Operation, testing, and applications of energy conversion machines including AC and DC motors and generators. Starts with experiments on magnetic circuits and transformers. Prerequisites: EEL 4410. Corequisite: EEL 4213.

EEL 4214 Power Systems II (3). Transmission line models, the bus admittance matrix, load flow studies and solution techniques, economic dispatch with and without losses, computer applications. Prerequisite: EEL 4213.

EEL 4215 Power Systems III (3). Short circuit calculations, symmetrical and unsymmetrical fault analysis, transient stability and dynamic studies as well as power system control. Computer applications. Prerequisite: EEL 4214.

EEL 4304 Electronics II (3). Second course in electronics with particular emphasis on equivalent circuit representation and analysis of electronic analog and switching circuits and systems, their frequency response and behavior under feedback control. Prerequisites: EEL 3112, EEL 3303. Corequisite: EEL 4304L.

EEL 4304L Electronics II Laboratory (1). Design and measurement experience of advanced electronics, including applications of integrated circuits. Prerequisite: EEL 3303L. Corequisite: EEL 4304.

EEL 4307 Electrical Engineering II (3). Electronic circuits. Transistors, FET. Equivalent circuits. Operational amplifiers. Basic digital circuits. Energy conversions. Transformers. Machinery. For non-EE majors only. Prerequisite: EEL 3003

EEL 4314 Integrated Circuits and Systems (3). Continuation of Electronics II with major emphasis on applications of electronic integrated circuits and design of analog, control, communication, and digital oriented electronic systems. Prerequisites: EEL 4304. Corequisite: EEL 4314L.

EEL 4314L Integrated Circuits Laboratory (1). Laboratory experiments in integrated circuits. Includes design of RF systems, analog integrated systems, and A/D and D/A systems. Prerequisite: EEL 4304. Corequisite: EEL 4314.

EEL 4410 Introduction to Fields and Waves (3). Static Electric Field, the Steady Electric Current, Magnetic Field of Ferro magnetic Materials. The relation between field and circuit theory waves and wave polarization, reflection, refraction, and diffraction. Prerequisite: EEL 3111.

EEL 4461C Antennas (3). Introduction to linear antennas, linear arrays and aperture antennas. Far field pattern calculation and measurement techniques. Prerequisite: EEL 3514.

EEL 4502 Introduction to Digital Signal Processing (3). Z transform. Continuous and digital filters. Design of digital filters. Effects of linite register length in digital filters. Engineering applications of digital filters. Prerequisite: EEL 3514.

EEL 4515 Advanced Communication Systems (3). Advanced senior level course designed for those students who desire to enhance their engineering knowledge in communication systems. State-ol-the-art techniques in FM, digital communication, phase locked loops, noise treatment, threshold improvement, etc. Prerequisites: EEL 3514, EEL 4304.

EEL 4611 Control Systems II (3). Design by Root-Locus, Bode plot, and Buillin-Truxal approach; characteristics of some typical industrial controllers and sensors. Computer simulation and other modern topics are included. Prerequisite: EEL 3657.

EEL 4611L Systems Laboratory (1). Laboratory experiments in various systems. Includes position and velocity control systems, zeroth order, first order, and second order systems. Use of analog computer to simulate and/or solve systems. Prerequisites: EEL 3657 and EEL 3514.

EEL 4709 Computer Design (3).
Computer architecture. Arithmetic units.
RAM, ROM, tape, disk memory systems.
Data, input/output, and channels.
Distributed and centralized control.
Prerequisities: EEL 3712, FORTRAN.

- EEL 4713 Digital Logic Design II (3). Upper division course in system design using state-of-the-art digital integrated circuits and concepts leading to realization of practical digital electronic systems. Prerequisites: EEL 3712, EEL 3303, and EEL 4757.
- EEL 4757 Microcomputers I (3). RAM, ROM, and CPU and architecture. Instruction sets. Timing sequences. Subroutines. Interrupts. Peripherals. Applications. System design. Prerequisites: FORTRAN, EEL 4709. Corequisite: EEL 4757L.
- EEL 4757L Microcomputers i Laboratory (1). Hands- on design experience with microcomputer systems and applications including buses, interfaces, and in-circuit emulation. Prerequisite: EEL 4709 Corequisite: EEL 4757.
- EEL 4759 Microcomputers II (3). Design of interfacing schemes of microcomputers such as video, disk, etc. and state-of-the-art hardware and software leatures of advanced microprocessors families. Prerequisite: EEL 4757.
- EEL 4905 Individual Problems in Electrical Engineering (1-3). Selected problems or projects in the student's major field of electrical engineering. It can be extended to a maximum of 9 hours. Student works independently with a minor advisement from designated laculty member. Prerequisite: Senior level and permission of instructor.
- EEL 4930 Special Topics in Electrical Engineering (1-3). Special topics covering selected topics in electrical engineering. Prerequisite. Permission of instructor.
- EEL 4949 Co-Op Work Experience (3). Practical co- op engineering work under approved industrial supervision. Prerequisite: Sophomore year
- EEL 5011 Electrical Design in Buildings (3). Review of electrical code and regulations. Design of loads, circuits, surge protectors, security, emergency systems, lighting systems. Special considerations for electrical system in new industrial buildings. Prerequisities: EEL 3112 and EEL 4304.
- EEL 5071 Bloelectrical Models (3) Engineering models for electrical behavior of nerve and muscle cells, electrode-tissue junctions, volume conductions in tissue and the nervous system as an electrical network Prerequisite ELR 4202.

- EEL 5085 Bioradiation Engineering (3), Spectrum of radiation sources, types of fields, properties of living tissue, mechanisms of field propagation in tissue. Applications in imaging and therapy, Hazards and salety.

 Prerequisite: EEL 4410.
- EEL 5145 Advanced Filter Design (3). Graduate course in the design and advance analysis of passive and active high order circuits. Use of computer as a design tool. Prerequisite: EEL 4140.
- EEL 5171 Advanced Systems Theory (3). State-space representations for continuous and discrete-time systems, controllability and observability, polezero allocation, Lyapunov stability theorem, state observers. Prerequisites: EEL 3657 and graduate level or advanced senior standing.
- EEL 5270 Electrical Transients in Power Systems (3). Traveling waves on transmission and multi- conductor systems, successive reflections, distributed parameter systems, transients on integrated power systems. Prerequisite: EEL 4213.
- EEL 5275 Power Systems Protection (3). Analysis of power systems under laulted conditions using linear transformation. The study of surge, transient and waves on power lines. Computer-aided analysis and design emphasizing the protection of equipment. Prerequisite: EEL 4215.
- EEL 5371 High Frequency Ampliliers (3). Analysis and design of high requency amplifiers and oscillators: stability, scattering parameters, use of the Smith chart and other practical design tools, noise. Prerequisites: EEL 4304, EEL 4410.
- EEL 5382 Industrial Electronics (3). A study of solid state devices for the control of power, their applications and limitations in power switching circuits and in the control of physical transducer Prerequisites: EEL 4213, EEL 4304
- EEL 5437 Microwave Engineering (3). Microwave wave guides Microwave tubes. Microwave solid state devices Microwave integrated circuits, Microwave enclosures Prerequisite: EEL 4410.
- EEL 5482 Fields and Waves
 Engineering (3). Concepts and theorems
 in fields and waves, analytic techniques
 for guided waves, radiation and
 scattering, numerical techniques for
 analysis of electrical devices using digital
 computers Prerequisite EEL 4410

- EEL 5500 Digital Communication Systems 1 (3). Course will consider most important aspects of digital communication systems such as noise related subjects, random signals, linear systems, and baseband digital modulation and multiplexing. Prerequisites: EEL 3135, EEL 3514, FEI. 3112C.
- EEL 5501 Digital Communication Systems II (3). Course will consider more important aspects of digital communication systems such as matched filters, digital base and modulation, multiplexing, carrier digital modulation and error correction coding. Prerequisite: EEL 5500.
- EEL 5524 Statistical Communication Theory (3). Noise, random processes, correlation, spectral analysis in the analysis and design of communication systems. Optimization techniques; minimum mean square error.

 Prerequisite: EEL 3514
- EEL 5563 Introduction to Optical Fibers (3). Use of fiber optics as a communication medium. Principles of fiber optics: mode theory: transmitters, modulators, sensors, detectors and demodulators: fiber data links. Prerequisites: EEL 3514, EEL 4314 and EEL 4410
- EEL 5613 Digital Control Systems (3)
 Analysis and design of digital control
 systems. Z-transforms, analysis and
 control of discrete-time systems, digital
 control of analog systems. Several digital
 controller design methods. Computer
 simulation and microprocessor
 implementation. Prerequisite: EEL 3657.
 Corequisite: EEL 4611
- EEL 5718 Computer-Communication Network Engineering (3). System engineering synthesis, analysis, and evaluation of computer-communication networks. Network design, routing and flow control, telecommunication traffic engineering, transmission, switching, etc. Prerequisite EEL 5501
- EEL 5719 Digital Filters (3). Analysis, design and implementation of digital filters. Hardware and software approach to design. Prerequisites: EEL 4140, EEL 4709.
- EEL 5725 Digital Systems
 Engineering I (3). This course involves
 systematic studies of digital instrumen
 tation, digital control, digital communication systems concepts and case
 studies Prerequisites EEL 4304, EEL
 4757 or equivalent
- EEL 5741 Advanced Microprocessor Systems (3) Interfacing of various

microprocessors together. Concepts of master-slave systems, virtual memory and I/O control techniques. Digital system evaluation and optimization. Prerequisite: EEL 4757.

EEL 5935 Advanced Special Topics (1-3). A course designed to give groups of students an opportunity to pursue special studies in an advanced topic of Electrical Engineering not otherwise offered. Prerequisite: Consent of

EEL 6020 Numerical Analysis of Electrical Devices (3). Numerical techniques for the analysis of static and diffusion eddy current type field problems and associated phenomena in electrical devices. Emphasis on implementation and applications to practical problems. Prerequisites: EEL 4213, MAD 3401 or equivalent.

EEL 6075 Biosignal Processing I (3). Characterizing biosignals by application of time and frequency domain analytic methods. Comparison of analog and digital processing. Engineering design for VLSI implementations in implantable devices. Prerequisites: ELR 4202 and EEL 6505.

EEL 6076 Biosignal Processing II (3). Engineering design of advanced systems for processing biosignals. Methods for signal compression. Adaptive systems for automatic recognition. Application of artificial intelligence for signal classification. Prerequisite: EEL 6075.

EEL 6141 Advanced Network Analysis (3). Modeling and analysis of networks by t-domain and s-domain techniques. Topics include topology, formulation of loop eqs and node pair eqs., state space networks, computer solutions.

Prerequisite: EEL 3112 and FORTRAN.

EEL 6223 Dynamic Analysis of Electrical Machines (3). State models of rotating machines, derivation of machine model parameters, modeling of machine and power system dynamics. Includes utilization of digital computers to selected practical problems. Prerequisite: EEL 4213.

EEL 6253 Computer Analysis of Power systems (3). Power systems analysis and designs by computer solutions. Interactive solutions, power flow, optimum solutions. Dynamic solutions and stability. Prerequisite: EEL 4215.

EEL 6254 Power Systems Reliability (3). Expansion planning, load forecasting, reliability and availability

application to generation planning, bulk power supply systems, generation system operation and production costing analysis. Prerequisite: EEL 4215.

EEL 6261 Power Systems
Engineering (3), steady- state analysis,
fault studies, load flow, dynamic and
transient performance, on-line control,
practical applications. Prerequisite: EEL

EEL 6273 Power System Stability and Control (3). Direct methods for system stability, computer analysis of large scale models, Lyapunov stability, longer term stability, security analysis, MW-frequency control, isolated and multiple area control. Prerequisites: EEL 4215 and FORTHAN.

EEL 6311 Advanced Electronic Systems I (3). Principles of analog and digital electronics network. Advanced analysis, modeling and computer simulation of op amps. Analog design techniques and practical examples are covered. Prerequisite: EEL 4314.

EEL 6312 Advanced Electronic Systems II (3). Study of linear properties of electronic systems and design of fault tolerant systems using A/D and D/A and control algorithms. Prerequisite: EEL 6311.

EEL 6315 Advanced Solid State Electronics (3). IC technologies, properties and tabrication concepts. Bipolar, MOS, I²L, CCD, bubble technologies. Ion implantation characteristics. Lithography techniques. Prerequisite: EEL 6311.

EEL 6395 Applied Superconductivity (3). Covers the basic physical properties of superconductors. Superconducting devices: squids, memory & logic elements. Emphasis is placed on applications of superconductors. Prerequisites: EEL 6315 and EEL 4410. Corequisite: EEL 6315.

EEL 6443C Electro-OptIcal Devices and Systems (3) Introduction to optical devices and systems such as solid state laser systems, their applications in industry. Also holography, linear and nonlinear optical modulation and demodulation concepts. Prerequisites: EEL 4410, EEL 4314. Corequisite: EEL 5563.

EEL 6444 Optical Fiber
Communication Systems (3). Course focuses on specification, design and application of fiber optic communication systems considering the fiber optic wave guide, optical device sources, photodetector, receiver and transmitter designs. Prerequisite: EEL 5501.

EEL 6505C Digital Signal Processing (3). Treatment of digital signal and system characteristics: Z transforms and FFT theory. Real time and correlation functions. Multidimensional signal processing and digital filtering. Prerequisites: EEL 4502, EEL 4314, EEL 5613.

EEL 6509 Digital Communications by Satellite (3). Course will consider processing and non-processing transponders, earth terminals, propagation link characteristics, multiple access techniques, and spread spectrum techniques. Prerequisite: EEL 5501.

EEL 6575 Data Communications Engineering (3). Digital networks for data communications, CCITT, HDLC, SDLC. Real time switching techniques. MICROPROCESSOR based network topologies. Busing schemes such as VME, MULTIB, RS232 modern design. Prerequisites: EEL 4757 and EEL 4314.

EEL 6614 Modern Control Theory I (3).
Graduate level treatment of modern control systems. Optimal control of leedback systems. Performance measures, Pontryagin's minimum principle, dynamic programming, numerical techniques. Prerequisite: EEL 5171.

EEL 6615 Modern Control Theory II
(3). Graduate level course in Stochastic control. Stochastic processes, linear estimation, Kalman filtering techniques in state estimation. Design of feedback control in the presence of noise.

Prerequisite: EEL 6614.

EEL 6666 Intelligent Electronic
Machine Design (3). Design of
electronic systems with sensors and
transducers, to function as an integrated
expert system in process control and
industry. Computer vision, image
processing and robotics. Prerequisites:
EEL 4304, EEL 3712 and EEL 4757.

EEL 6758 Engineering Design of Micro Based Operating Systems (3). Hardware microprocessor based systems, BIOS (basic input and output), Kernel partitions, memory, stack organization and physical design of operating systems. Prerequisites: EEL 4709 and EEL 4757.

EEL 6763C Digital Systems
Englneering II (3). Analysis and design
of time shared digital electronic systems.
Artilicial intelligence and automation.
Robotics and remote control systems.
Advanced digital instrumentation and
testing. Prerequisite: EEL 5725.

EEL 6905 Individual Work (3). Special problems or projects selected by the

students and a faculty member. The student conducts the project with a minimum of supervision. Consent of Department Chairperson and Faculty Advisor.

EEL 6916 Graduate Project (1-3). Independent research work culminating in a professional practice-oriented report for the requirements of the non-thesis option of the M.S. degree project. Prerequisites: Filteen graduate credits and approved project plan.

EEL 6932 Graduate Seminar (1). An examination of recent technical findings in selected areas of concern. Emphasis is placed on presentations (oral and written), research activities, readings, and active discussions among participants. Prerequisite: Consent of graduate advisor.

EEL 6971 Research Master's Thesis (1-6). The student, following the option of the Master's Degree with thesis, should work for his/her thesis through this course. Prerequisite: Graduate standing.

ELR 4202C Medical Instrumentation Design (4). Concepts of transducers and instrumentation systems; origins of biopotentials; electrical salety; therapeutic and prosthetic devices. Prerequisite: EEL 4304.

Industrial and Systems Engineering

Fred Swift, Professor and Chairperson Hector Carrasco, Assistant Professor Khoklat Kengskool, Assistant Professor

Shih-Ming Lee, Assistant Professor Serglo Martinez, Senior Lecturer German Nunez, Associate Professor Milton Torres, Lecturer

Degree: Bachetor of Science

As defined by the Institute of Industrial Engineers, Industrial Engineering is "concerned with the design. improvement, and installation of integrated systems of people, materials, equipment, and energy " Industrial Engineering is the only engineering discipline which is specifically concerned with the role of the human being in the process by which goods and services are produced, and as such is often called "people oriented engineering discipline. The program as developed at the University will have a very modern component which will emphasize the sophisticated areas of simulation and modeling, automation and robotics, and flexible manufacturing systems. It is

soundly based in the traditional Industrial Engineering areas such as work measurement and simplification, probability and statistics, and facility and work place design. The Industrial Engineering curriculum complies with fundamental core of the Industrial Engineering Department at the undergraduate level, and the basic core of Industrial Engineering which is listed below.

To qualify lor admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise accepted into the program.

Industrial En	gineering Curriculum	
EIN 3314	Work Design	3
EIN 3354	Engineering Economy	3
EIN 3365	Facility Planning and	
	Materials Handling	5
EIN 3390	Manulacturing	_
	Processes	3
EIN 3393	Production Planning	3
EIN 3394	Quality Control	3
EIN 3600	Introduction to	٠
2111 0000	Robotics	3
EIN 4334	Production Control	3
EIN 4116	Industrial Information	9
LIN 4110	Systems	3
EIN 4333	Productivity Planning	3
EIN 4334	Production Control	3
EIN 4334	Technology	J
EIN 4307	Assessment	3
EIN 4389	Technological	3
EIN 4309		2
EIN 4391	Forecasting	3
EIN 4391	Product Design for	
	Manulacturing and	_
EIN 4005	Automation	3
EIN 4395	Computer Integrated	
	Manufacturing	3
ESI 3161	Industrial Application	
	of Microprocessors	3
ESI 3314	Generic Models of	
	Industrial Systems	3
ESI 3523	Simulation Models	
	of I.S	3
ESI 4451	Project Management	
	Systems Design	3
ESI 4454	ISE Systems Design	3
ESI 4556	Industrial and Systems	
	Engineering in	
	the Office	3

Specialization Areas

Five concentration areas are available to students majoring in Industrial Engineering.

- 1. General Industrial Engineering
- Operations Research
- 3 Management Engineering
- 4 Systems Engineering

5 Computer Integrated
Manufacturing and Robotics Systems

Students should contact an adviser in each of these areas

Aviation Studies Option

Milton Torres, Airway Science Advisor

Airway Science is a special option available in the Industrial Engineering Department. Programs in Airway Science Management and Aircraft Systems Management have been developed in cooperation with local community colleges. Special admission requirements apply and applicants must be also eligible for admission into the Industrial Engineering Department. For details, contact the Airway Science Advisor.

In addition, a specialty area is available for Air Traffic Controllers.

Air Traffic Controller

The majority of the coursework is offered in the Industrial Engineering Department and a Bachelor of Science in Industrial Engineering is awarded.

To be admitted into this technical program, students must be selected by the Federal Aviation Administration. This is a cooperative program between the University and Broward Community College and Miami Dade Community College.

Aviation Scholarship

The Mickey Dane Scholarship was established at the University in February 1983 through Iriends and associates of Walter J Dane to honor his achievements during the 37 years of service to Eastern Airlines. Interest from an endowment fund will be awarded as an annual scholarship to cover futition and fees. Applications and information is available through the office of Financial Aird

Course Descriptions

Definition of Prefixes

E(N - Engineering Industrial, ESI - Engineering Systems Industrial

EGN 3123 Computer Assisted Drawing and Design (3). Application of computer assisted design technology to product design, leasibility study and pro-duction drawing. Prerequisite: EGN 1120.

EIN 1396C Basic Industrial Shop and Manufacturing Practices (3). Fundamentals of basic capabilities and

requirements for a modern shop or industrial manufacturing facilities. Rudiments of safety requirements, weed technology, metal technology and plastic technology.

EIN 3102 Coffective Bargaining in Industrial Systems (3). A comprehensive study et collective

bargaining with emphasis upon the private sector. Included will be negotiations and scope of contracts, day-to-day contract administration, and major bargaining issues.

EIN 3214 Safety in Engineering (3). Introduces occupational safety and health hazards associated with mechanical systems, materials handling, electrical systems, and chemical processes. Illustrates controls through engineering revision, safeguarding, and personal protective equipment. Emphasis placed on recognition, evaluation and control of occupational safety and health hazards.

EIN 3314 Work DesIgn (3). The analysis, design, and maintenance of work methods. Study of time standards, including pre-determined time standards and statistical work sampling. Prerequisite: Junior standing.

EIN 3314L Work Design Laboratory (1). Experiments in the different Work Design techniques including Performance Sampling, Time Studies, Pre-Determined Time Systems and Workplace Design. Corequisite: EIN 3314.

EIN 3354 Englneering Economy (3). Methods of economic analysis in engineering including decision problems, value measurement, interest relationships, criteria for decisions under certainty, risk and uncertainty.

EIN 3359 Industrial Financial Decisions (3). The accounting process and use of financial techniques and data in planning, controlling, and coordinating industrial activities. This course is intended to familiarize the student with accounting concepts, analytical methods, and use of accounting information for purposes of operation and control. Prerequisite: EIN 3354.

EIN 3365 Facilities Planning and Materials Handling (5). Application of methods and work measurement principles to the design of work stations. Integration of work stations with storage and material handling systems to optimize productivity. Prerequisite: EGN 1120 or equivalent.

EIN 3390 Manufacturing Processes (3). Study of interrelationships among materials, design and processing and their impact on workplace design, productivity and process analysis for the industrial engineer. Prerequisites: Permis-sion of instructor, EGN 3365 or equivalent.

EIN 3393 Production Planning (3). Forecasting, inventory decisions, material requirement planning and production scheduling as an interrelated set of activities to achieve efficiency and productivity in manufacturing and service organization. Prerequisites: ESI 3314, EIN 3354, EIN 3394.

EIN 3394 Quality Control (3). Modern concepts for managing the quality function of industry to maximize customer satisfaction at minimum quality cost. The economics of quality, process control, organization, quality improvement, and vendor quality. Prerequisite: Statistics

EIN 3600 Introduction to Robotics (3). Basic concepts of industrial robots; technology, performance characteristics, criteria for use, failure/success of industrial experiences; planning, selection, and implementation. Open to non-majors. Prerequisite: STA 3033 or equivalent.

EIN 3600L Introduction to Robotics Laboratory (1). Experiments in the use of CNC machines and robots demonstrating performance characteristics of CNC equipment and robotic arms. Correquisite: EIN 3600.

EIN 3604 Robotic Assembly Cell (3). Concepts of manipulation, sensors, part design for robotic assembly, analysis of programmable assembly, basic robot motions, precision of movement, robot programming, cell control, material transfer. Prerequisite: EIN 3600

EIN 3604L Robotic Assembly Cell Laboratory (1). Robot Programming using AML/E and AML Robotic Languages to determine repeatability, accuracy, compliance, and other characteristics of Robotic Equipment. Prerequisite: EIN 3600. Corequisite: EIN 3604.

EIN 3949 Industrial Engineering Co-Op (3). Entry level work experience as an Industrial Engineering intern. Jointly supervised by IE and Industry personnel. Written report required. Student must obtain approval from IE laculty and sign up for course before starting work. Prerequisite: Approval ol advisor.

EIN 4116 Industrial Information Systems (3). The integration of information flows and data bases with the production planning and control systems into productive and manageable systems. Prerequisite: ESI 3161. EIN 4122 Industrial Marketing (3). The performance of business activity that directs the flow of goods and services from producer to industrial user. Covers new product development, marketing research, sales engineering, pricing, distribution, and promotion.

EIN 4243 Human Factors Engineering (3). Examination of the ways to fit jobs and objects better to the nature and capacity of the human being. Lectures will review man's performance capability, singly and in groups, in interacting with his work environment. Stresses the practical application of human factors principles. Prerequisite: STA 3033.

EIN 4243L Human Factors in Engineering and Design Laboratory (1), Experiments are conducted which measure human factors indicators and differences by age, sex, and race, as well as physiological and anatomical differences. Corequisite: EIN 4243.

EIN 4264 Industrial Hyglene (3). A continuation of Safety in Industry. An introduction to OSHA regulations on health hazards. Noise, radiation, and dust problems in industry. Special hazards with solvents, asbestos, lead, silica, and other chemicals. OSHA compliance procedures.

EIN 4326 Industrial Research and Development (3). Research and development for new product strategies, technological assessment, patent and product liability, and sales engineering. An independent study product will be required by each student. Prerequisite: Senior status.

EIN 4333 Productivity Planning (3). The improvement of productivity as a functional activity of the enterprise. Productivity definitions, measurement, methodologies, and reporting systems. Prerequisities: EIN 3314, ESI 3161, and STA 3033.

EIN 4334 Production Control (3). Basic concepts of input, output, and feedback as they apply to the design of quality, inventory, and production scheduling systems. Prerequisites: EIN 3393, EIN 3365.

EIN 4387 Technology Assessment (3). Development of systematic efforts to anticipate impacts on society that may occur when a technology is introduced, extended, or modified. Prerequisites: Senior standing in Engineering, ESI 3161 and STA 3033. EIN 4389 Technological Forecasting (3). Emphasis on forecasting future trends and specific developments in the area of capabilities and needs. Prerequisities: Senior standing in Engineering, EIN 3393.

EIN 4391 Product Design for Manufacturability and Automation (3). Design and review of designs of manufactured products. Integration of the product design for function, and the process design for manufacturability. Prerequisites: EIN 3600 and EIN 3390.

EIN 4395 Computer Integrated Manufacturing (3). The integration of computer aided design and computer aided manufacturing. Development of a common data base for design and manufacturing. Developments of flexible manufacturing systems. Prerequisites: EIN 3600, ESI 3523.

EIN 4601 Robotic Systems (3). System principles, functional requirements of robotic system, simulation of system solutions, physical experimentation of system with several robotic cells, economics of robotic systems. Prerequisite: EIN 3604

EIN 4933 Special Topics in Industrial Engineering (2-3). Permits in-depth study in areas relating to specific student interests, recent advances, and problems in industrial technology or systems. Prerequisite: Senior standing, consent of faculty advisor and approval of department chairman.

EIN 4949 Co-Op Work Experience (3). Practical co-op work experience under approved industrial supervision. Written report required at the conclusion of the work assignment. Prerequisite: Permission of department chairperson.

ESI 3161 Industrial Applications of Microprocessors (3). Basic concepts of microprocessors; an overview of computer architecture, local area networks, micro-mainframe linking, and operating systems as they apply to industrial systems. Prerequisites: CGS 3420, or equivalent

ESI 3314 Generic Models of Industrial Systems (3). Modeling principles with emphasis on linear programming and extensions. The simplex procedure and its application through computer software packages. The analysis and interpretation of results in decision making. Prerequisite MAC 3312.

ESI 3523 Simulation Models of Industrial Systems (3). Simulation methodology, design of simulation experiments, implementation of simulation effort through computer software. Application to the solution of industrial and service system problems. Prerequisite: ESI 3161 and STA 3033.

ESI 3523L Simulation Models of Industrial System Laboratory (1). Simulation Modeling on a microcomputer. Analyze and validate design models using both a general purpose programming language and a special-purpose Simulation language. Prerequisite: STA 3033. Corequisite: ESI 3523.

ESI 4451 Project Management Systems Design (3), Project planning, scheduling and control using activity network logic, such as PERT and CPM. Students will be expected to identify and plan an integrative ISE capstone group project using computer software. Prerequisite: ESI 3314.

ESI 4554 ISE Systems Design (3). To integrate all prior ISE required courses into a cohesive and consistent professional philosophy. Prerequisite: ESI 4451.

ESI 4556 Industrial and Systems Engineering in the Office (3). Paperwork reduction, overhead and expense cost containment, and white collar productivity through office automation and systems analysis

Mechanical Engineering

Gautam Ray, Professor and Chairman S. Chellalah, Assistant Professor M.A. Ebadian, Associate Professor W. Kinzy Jones, Associate Professor Rene Leonard, Associate Professor Cesar Levy, Assistant Professor Fredrick Swift, Professor Kuang-Hsi Wu, Assistant Professor Tachung Yih, Assistant Professor

Research Faculty
Antonio Campo, Professor
Wel Jiang, Assistant Professor
Ian Radin, Associate Professor
Ebrahim Shirazinedjad, Assistant
Professor
Professor

Raul Travieso, Lecturer Gao Yang, Assistant Professor

Courtesy Faculty
Gyan Pande, Associate Professor
Eduardo Sagredo, Professor
Manuel Vlamonte, Chief of Radiology,
Mount Sinai Medical Center,
Miami Beach

N. Yoganandan, Professor, Scientific Director, Immuno Oncology Laboratories, Department of Pathology, Baptist Hospital of Miami Manuel Viamonte, Assistant Professor, Department of Neurosurgery, Medical College of Wisconsin

The academic program provides a well balanced curriculum in the following two major areas of Mechanical Engineering:

Fluid Thermal Science Mechanics and Control of Mechanical and Dynamic Systems

Further specializations in any of the following areas may be obtained by the proper choice of electives:

Energy Systems
Heating, Ventilation, and Air
Conditioning
Material Sciences
Biomechanics and Bioengineering
Manufacturing Methods
Computer Aided Design

The courses in the Manufacturing Methods area are offered by the Industrial Engineering department. Biomechanics and Biomedical Engineering are areas of interdisciplinary studies and the courses in these areas are offered by both the Mechanical and Electrical Engineering departments. Laboratory experiences in the Clinical and Diagnostic Imaging area are offered at the Mt. Sinai Medical Center, Miami Beach, Florida, and the Baptist Hospital of Miami.

A Bachelor's degree in Mechanical Engineering provides students the background suitable for immediate employment in the engineering industries, as well as excellent preparation for graduate studies in Engineering, Medicine, Law, or Business Administration.

Degree: Bachelor of Science

The qualification for admissions to the Department of Mechanical Engineering are the same as for admission to the School of Engineering and Design.

The academic program is designed to satisfy the criteria outlined by the Accreditation Board for Engineering and Technology (ABET), as well to meet the State of Florida's articulation policy (Gordon Rule). Entering froshmen at FIU may also have to satisfy additional requirements and are, therefore, urged to seek advisement from the Undergraduate Studies Office as well as from the Mechanical Engineering department's office of advisement

The minimum requirements for graduation in Mechanical Engineering consist of two parts. 1) Mathematics, Basic Sciences, Computer Programming, Humanities and Social Sciences requirements, and 2) Engineering Sciences, Engineering Design, Laboratory and Elective.

requirements. Detailed outlines are given below:

Minimum semester credit hours requirements in the area of Mathematics. Basic Sciences, Humanities, Social Sciences, and Computer Programming: Mathematics, including Elective Chemistry and Physics with Laboratory 16 Computer Programming 3 English, including Technical Writing q Humanities and Social Science 16

In meeting the requirements in Humanities and Social Sciences, the student should take at least two courses which form a coherent sequence.

Mechanical Engineering Curriculum Engineering Science, Engineering Design, Laboratory and Elective semester credit hours requirements:

	•	
EGN 1120	Engineering Drawing	3
EGN 3311	Statics	3
EGN 3321	Dynamics	3
EGN 3365	Materials in	
	Engineering	3
EGM 3520	Engineering Mechanics	
	of Materials	3
EGM 3520L	Materials Testing Lab	1
EGN 3353	Fluid Mechanics	3
EGN 3353L	Fluid Mechanics Lab	1 3 3
EGN 3343	Thermodynamics I	3
EML 3101	Thermodynamics II	3
EML 3262	Kinematics &	
	Mechanisms Design	2
EML 3222	System Dynamics	2 2 2
EML 4220	Mechanical Vibrations	2
EML 4312	Automatic Control	
	Theory	3
EML 4140	Heat Transfer	3
EIN 3390	Manufacturing	
	Processes	3
EEL 3003	Electrical Engineering I	3
EEL 3111L	Circuit Lab	1
EML 3301L	Instrumentation &	
	Measurement Lab	2
EEL 4307	Electrical Engineering II	2
EML 4906L	Mechanical Lab I	1
EML 4412L	Mechanical Lab II	1
EML 3500	Mechanical Design I	3
EML 4501	Mechanical Design II	3
EML 4706	Design of Thermal &	
	Fluid Systems	3
EML 4905	Senior Design Project	4
EML Design E	lective	3
Technical Elec	tive	3 3
EML or other I	Elective	3
EML 4936	Mechanical Engineering	ł
	Seminar ¹	1

Attendance during the senior year is a requirement for graduation.

Laboratories

Over and above the laboratory requirements in Physics and Chemistry, the program consists of 7 semester

hours of required Engineering laboratory work. The students are assigned 2 hours of laboratory work (1 hour in Instrumentation and Measurement Lab and 1/2 hour each in Mechanical Lab I and II) which are specially devoted to solving design problems by using experimental methods. The laboratory experience includes the following areas: Circuits, Fluid Mechanics, Mechanics of Materials and Materials Testing, Advanced Applications in Fluid and Thermal Science, Instrumentation and Measurement, and Vibration Laboratory. The elective areas offer the following additional laboratories: Air Conditioning and Refrigeration, Biomedical Engineering, Material Sciences, Computer Aided Design, and Computer Integrated Manufacturing.

Flectives

The four concentration areas of the Mechanical Engineering program with their elective offerings are listed below.

Fluids/Thermat Sciences and Energy Systems

Systems		
EML 3450	Energy Systems	3
EML 4130	Internal Combustion Engines	3
EML 4411	Mechanical Power	3
CIVIC 4411	Theory	3
EML 4419	Propulsion Systems	3
EML 4601	Refrigeration and A/C	
	Principles	3
EML 4601L	Refrigeration &	
	A/C Lab	2
EML 4603	Air Conditioning	_
	Design I	3
EML 4705	Gas Dynamics	3
EML 5104	Classical	_
	Thermodynamics	3
EML 5152	Intermediate Heat	_
E	Transfer	3
EML 5153	Advanced Heat	_
ENU 5700	Transfer	3
EML 5709	Intermediate Fluid	2
EML 5712	Mechanics Advanced Fluid	3
EMIL 3/12	Mechanics	3
EML 5715	Computational Fluid	J
LIVIL 37 13	Dynamics	3
	Dynamics .	_

Mechanics, Materials and System Design

EMA 3066	Polymer Science and	
	Engineering	3
EGM 3311	Analysis of	
	Mechanical Systems	3
EMA 4121	Physical Metallurgy	3
EMA 4121L	Materials Lab	1
EMA 4223	Mechanical Metallurgy	3
EML 3301	Instrumentation	3
EML 4260	Dynamics of Machinery	3
EML 4535	Mechanical Computer	
	Aided Design	3

EML 4561	Introduction to	
	Electronic Packaging	3
EGM 4610	Introduction to	
	Continuum Mechanics	3
EGM 5111	Experimental Stress	
	Analysis	3
EML 5125	Classical Dynamics	3
EGM 5351	Finite Element	
	Methods in Mechanics	3
EGM 5533	Advanced Mechanics	•
	of Materials	3
EGM 5653	Theory of Elasticity	3

Biomechanics and Biomedical

Engineering		
ELR 4202C	Medical	
	Instrumentation	3
EGM 4580	Principles of	
	Bioengineering	3
EGM 4580L	Biomedical	
	Engineering Lab	1
EGM 4581	Biomechanics of	
	Cardiovascular	
	Systems	3
EGM 4582	Engineering	
	Hemodynamics	3
EGM 4583	Orthopaedic	
	Biomechanics	3
EML 4585	Design of Biomedical	
	Systems & Devices	3
EEL 5071	Bioelectrical Models	3
EEL 5085	Bioradiation	
	Engineering	3

Manufacturing Methods		
EIN 3354	Engineering Economy	3
EIN 3600	Introduction to	
	Robotics	3
EIN 4391	Product Design for	
	Manufacturing and	
	Automation	3
EIN 4395	Computer Integrated	
	Manufacturing	3
EML 4535	Mechanical Computer	
	Aided Design	3
EML 4561	Introduction to	
	Electronic Packaging	3

Students with special needs may take other elective courses (not listed above) with their advisor's permission. Students are not restricted to these four areas but may choose courses, with the advisor's consent, that will form a coherent concentration area. Co-op work experience or special topics, or both. may be counted as electives.

Master of Science In Mechanical Engineering

Admission Requirements Bachelor's degree in Engineering or related field from an accredited institution with a minimum 3.0 GPA (on a scale of

4.0 maximum) in the upper level work

and a combined (verbal and quantitative)

score of 1000 on the Graduate Record Examination (GRE), Applicants having either a 3.0 GPA or a score of 1000 on the GRE will be evaluated by the department committee for possible admission. Under certain circumstances, consistent with state university requirements, students may be admitted under the 10% exception rule. Therefore, minority students are encouraged to apply for proper program admission. A student whose degree is not in Mechanical Engineering may need additional remedial coursework. Foreign students require a minimum of 500 on the TOEFL.

Financial Assistance

The faculty in the Mechanical Engineering Department are involved in a number of on-going funded research projects. Many graduate students are supported by these projects as research assistants. Additionally, some teaching assistantships, tuition waivers and scholarships are available.

Areas of Specialization

Bioengineering/Biomechanics Computer Aided Design Computer Integrated Manufacturing (CIM) **Energy Systems** Finite Elements Analysis Fluids Mechanics Fracture Mechanics Heat Transfer

In order to specialize in the areas of CIM and Robotics, students need to collaborate with the faculty of the Industrial Engineering Department.

Course Requirements

Material Sciences

Robotics

All MSME degree seeking students must take the following five courses or equivalent as common core courses:

EGM 5315	Intermediate Analysis	
	of Mechanical Systems	3
EGM 5615	Synthesis of	
	Engineering Mechanics	3
EML 5709	Intermediate Fluid	
	Mechanics	3
EGM 6422	Advanced Analysis of	
	Mechanical Systems	3
EML 5277	Computer Aided Design	1
	and Analysis of Mechan) -
	ical Enginnering	3

An additional 21 credit hours are to be taken from the following Mechanical Engineering courses, (up to a maximum of six semester hours may be taken from courses offered by other departments)

EML 5708	Advanced Design of Thermal and Fluid	
EML 5712	Systems Advanced Fluid	3
	Mechanics	3

EML 5715	Computational Fluid	
	Mechanics	3
EML 6714	Advanced Gas	
	Dynamics	3
EML 5102	Intermediate	
	Thermodynamics	3
EML 5104	Classical	
	Thermodynamics	3
EML 5152	Intermediate Heat	
	Transfer	3
EML 5153	Advanced Heat	
	Transfer	3
EML 6154	Conduction Heat	
	Transfer	3
EML 6155	Convection Heat	
	Transfer	3
EML 5125	Classical Dynamics	3
EML 6223	Advanced Mechanical	
	Vibrations Analysis	3
EML 6233	Fatigue and Failure	
	Analysis	3
EML 6552	Advanced Applications	
	in Mechanical Computer	
	Aided Design	3
EML 6805	Advanced Kinematics	
	of Mechanisms and	
	Robots	3
EML 5562	Advanced ELectronic	
	Packaging	3
EGM 6586	Fluid Mechanics	
	Applications in	
	Physiological Systems	3
EGM 6587	Applied Biomedical and	
	Diagnostic	
	Measurements	3
EGM 6588	Solid Mechanics	
	Applications in	_
F011 0000	Physiological Systems	3
EGM 6908	Independent Studies 1-	_
EML 6971	Master's Thesis 1-	6

Thesis Requirement

Six semester hours (three credits maximum per semester) must be earned and an acceptable thesis must be completed. Upon the approval of the departmental committee, the thesis requirement may be replaced by two additional courses. Usually, this permission is granted to the student with considerable research and development related work experience

Other requirements:

1 Fam a minimum 3 0 GPA average in all approved courses in the student's program of study

2 Pass a comprehensive examination (given by the departmental committee) which may include an oral defense of the thesis project Students with non-thesis option must also pass this comprehensive examination

Course Descriptions

Definition of Prefixes

EGM - Engineering Mechanics, EGN Engineering; General; EMA -

Engineering; Materials; EML -Engineering: Mechanical

EGM 3311 Analysis of Mechanical Systems (3). Analysis of mechanical engineering problems and their solutions via analytical and numerical means Statistical methods in designing mechanical engineering experiments. Governing equations for energy and dynamic systems and methods available for solutions will be discussed. Prerequisites: MAC 3312 and EGN

EGM 3503 Applied Mechanics (3). Statics and dynamics of solids and fluids. Science of engineering materials. Open to non-mechanical engineering students only. Prerequisite: Permission of instructor.

EGM 3520 Engineering Mechanics of Materials (3). Analysis of axial. torsional, bending and combined stresses and strains. Plotting of shear, moment and deflection diagram with calculus applications and interpretations Prerequisites: EGN 3311 and MAC 3312

EGM 4580 Principles of Bioengineering (3). Medical Instrumentation and design, regulations for medical devices, application of computers in medicine, biomaterials, biocommunications, artificial implants: clinical engineering. Prerequisite: Permission of instructor.

EGM 4580L Biomedical Engineering Lab (1). Introduction to the principles of biological signal measurements, biological data acquisition and image processing. Prerequisite! Permission of instructor

EGM 4581 Blomechanics of Cardiovascular Systems (3), Functional cardiovascular physiology and anatomy, analysis and computation of cardiovascular flow, constitutive properties of tissue; coronary and systemic circulation, flow and stress considerations in cardiovascular assist devices Prerequisites: EGN 3520 EGN

EGM 4582 Engineering Hemodynamics (3). Fluid mechanics of the circulatory system, rheology of blood. lubrication mechanics. Prerequisite EGN 3353

EGM 4583 Orthopaedic Biomechanics (3). Introduction to the fundamentals of human musculoskeletal physiology and anatomy and computation of mechanical forces as it applies to orthogaedic biomechanics. Prerequisite. EGN 3321 and EGM 3520

EGM 4610 Introduction to Continuum Mechanics (3). Introduction to modern continuum mechanics, mathematical preliminaries, stress and equilibrium, delormations and compatibility, constitutive equations, balance laws, problems solution strategies.

Prerequisite: EGM 3520.

EGM 5315 Intermediate Analysis of Mechanical Systems (3). First course at the graduate level in the analysis of mechanical systems. Modeling of the system and analytical and numerical methods of solution of the governing equations will be studied. Fluid and thermodynamic systems will be emphasized in this course. Prerequisites: MAC 3302, EGN 3353, EGN 3343, EML 4140, and EGM 3311.

EGM 5615 Synthesis of Engineering Mechanics (3). Unified approach to the analysis of continuous media using constitutive equations, mechanical behavior of materials and their usefulness in handling failure theories and composite materials. Prerequisites: MAC 3302 and EGN 3520.

EGM 6422 Advanced Analysis of Mechanical Systems (3). Modeling of vibrational and dynamic systems including solution of governing equations by analytical and numerical techniques. Prerequisite: EGM 5315 or permission of instructor.

EGM 6570 Fracture Mechanice (3). Failure criteria and the different modes of fracture; stress intensity factor; the J integral; viscous and plastic fracture mechanics and crack displacement models will be studied. Prerequisite: EGM 5615.

EGM 6586 Fluid Mechanics
Application In Physiological Systems
(3). Fluid mechanics principles including
finite element and finite difference
methods as it is applied to the analysis
of various physiological systems will be
covered. Process flow, diffusion and
transport will be discussed in
cardiovascular and pulmonary systems.
Application of these primarily in the
design of heart-lung machine, dialysis
units and heart valves will be discussed.
Prerequisite: EGM 4580 or permission of
instructor.

EGM 6587 Applied Blomedical and Diagnostlc Measurements (3). Fundamentals of Hemodynamic measurements and various imaging modalities will be covered. The students will be spending some time in clinical laboratories in making actual measurements. The course will be taught in collaboration with the Diagnostic Radiology Department at Mt. Sinai Medical Center, and Baptist Hospital. Prerequisite: EGM 4580 or permission of instructor.

EGM 6588 Solid Mechanics Application in Physiological Systems (3). Solid mechanics and numerical methods as applied to rheology analysis of muscoloskeletal system and trauma. Design application in orthotics and prothesis and heart valve. Prerequisite: EGM 4580 or permission of instructor.

EGN 1120 Engineering Drawing (3). Laboratory experiences in the principles and practice of idea development and expression through free hand sketching and conventional instrument drafting. A beginning course for students with no prior drafting experience.

EGN 3311 Statics (3). Forces on particles, and two and three dimensional rigid bodies, equilibrium of forces, moments, couples, centroids, section properties, and load analysis of structures; vector approach is utilized. Prerequisites: PHY 3048 and MAC 3412

EGN 3321 Dynamics (3). Study of the motion of particles and rigid bodies, conservation of energy and momentum. A vector approach is utilized. Prerequisite: EGN 3311.

EGN 3343 Thermodynamics I (3). Fundamental concepts of basic thermodynamics including first and second law topics, equations of state and general thermodynamic relationships. Prerequisites: MAC 3412, PHY 3048.

EGN 3353 Fluid Mechanica (3). A study of the properties of Illuids and their behavior at rest and in motion. Buoyancy and stability. Momentum and energy considerations in fluid flow. Prerequisite: EGN 3321. Corequisite: EGN 3353L.

EGN 3365 Materials in Engineering (3), A study of materials used in engineering. Includes atomic structure phase diagrams and reactions within solid materials. Prerequisite: CHM 1045.

EMA 3066 Polymer Science and Engineering (3). Introduction to preparation, molecular structure property relationships, processing and applications of macromolecular materials. Prerequisite: EGN 3365.

EMA 4121 Physical Metallurgy (3). Correlation of properties, structural and mechanical history, thermal history and service behavior of various metals and their alloys. Prerequisite: EGN 3365. EMA 4121L Materials Laboratory (1). Laboratory techniques in materials, including metallography, mechanical testing, heat treatment and nondestructive testing techniques. Prerequisite: EGN 3365.

EMA 4223 Mechanical Metallurgy (3). Fundamentals of plastic deformation of crystalline solids: elementary theory of statics and dynamics of dislocations; applications to deformation of single crystals and polycrystals; fracture of metals. Prerequisite: EGN 3365.

EML 3101 Thermodynamics II (3). Continuation of Thermodynamics I covering reactive and nonreactive mixtures and various thermodynamic cycles. Prerequisite: EGN 3343.

EML 3222 Systema Dynamica (2). Introduction to modeling of mechanical systems; derivation of system equations and system's response; free and forced vibrations of multidegree of freedom systems; application to instruments and control. Prerequisites: MAP 3302, EGN 3321, EGM 3520, CGS 3420.

EML 3262 Kinematics and Mechanisms Design (2). Fundamentals of kinematics and mechanism design; study of the mechanisms used in machinery and analysis of the motion. Two and three dimensional analytical and numerical methods of computer application and design is emphasized. Prerequisites: EGN 3321, CGS 3420.

EML 3301 Instrumentation (3). A practical study of common instrumentation techniques. Use of instrumentation and measurement methods to solve problems is emphasized. Prerequisite: EEL 3003.

EML 3301L Instrumentation and Massurement Laboratory (2). A practical study of common instrumentation elements and measurement systems used in mechanical and electro-mechanical applications. Prerequisite: EEL 3003, EEL 3111L.

EML 3450 Energy Systems (3). Review of theory and engineering aspects of conventional energy conversion systems, fuels and combustion, lossil fuels, and nuclear power plants. Aspects of direct energy conversion.

Prerequisite: EGN 3343.

EML 3500 Mechanical Design I (3). Design of basic machine members including shafts, springs, belts, clutches, chains, etc., Prerequisites: EGN 3321, EGM 3520, EGN 3365. EML 4130 Internal Combustion Engines (3). Engine types, characteristics and operation. Performance lactors, fuel combustion, power cycles. Knock and engine variables. Exhaust emissions. Fuel Metering. Compressors and turbines. Prerequisite: EML 3101.

EML 4140 Heat Transfer (3). Study of fundamentals of basic heat transfer including conduction, convection, and radiation. Computer applications and design problems emphasized. Prerequisites: CGS 3420, EGN 3343, EGN 3353, MAP 3302.

EML 4220 Mechanical Vibrations (2). Theory and application of mechanical vibrations. Includes damped and undamped vibrations with one or more degrees of freedom computer methods emphasized. Prerequisites: EGN 3321, EGM 3520, CGS 3420.

EML 4260 Dynamics of Machinery (3). Acceleration and force analysis of reciprocating and rotating mechanisms and machines. Dynamic balancing of idealized systems. Torsional and lateral critical speeds of a rotor and self-excited instability. Prerequisite: EGN 3321.

EML 4312 Automatic Control Theory (3). Feedback control systems; stability analysis; graphical methods. Applications with emphasis on hydraulic, pneumatic and electro-mechanical devices. Prerequisites: EGN 3321, and (EML 3222 or permission of advisor).

EML 4411 Mechanical Power Theory (3). Study of various techniques used in generating power. Emphasis of large central station power plants. Prerequisites: EGN 3343, EML 3101.

EML 4412L Mechanical Lab II (1). Experiments in internal combustion engines, gas turbines, steam turbines, boilers. Prerequisites EGN 3343, and EML 4140

EML 4419 Propulsion Systems (3). Basics of air broathing and rocket engines used in flight systems, gas turbine and ramjet fundamentals. Introduction to compressor and turbine design. Propulsion performance. Unconventional means of propulsion in space. Prerequisites EGN 3343, EML 4705.

EML 4501 Mechanical Design II (3). Continuation of design analysis of elementary machino elements, including lubrication bearings, and gearings. Introduction to advanced analysis techniques. Prerequisito: EML 3500. EML 4535 Mechanical Computer Alded Design (3). Introduction to computer in the design process. Course emphasize the use of interactive computing and computer graphics in developing CAD applications.

Programming project is required.

Prerequisites: CGS 3420 and EGN 2321

EML 4561 Introduction to Electronic Packaging (3). Introduction to mechanical packaging of electronic systems. Integrates concepts in mechanical engineering to the packaging of electronic systems, such as hybrid microelectronics.

Prerequisites: EEL 3003, EEL 3111L.

EML 4585 Design of Blomedical Systems and Devices (3). Mechanical design and material choices of various biomedical systems and devices such as cardiovascular assist devices, total artificial heart, pulmonary assist devices, total hip prosthesis and other orthopaedic devices. Prerequisites: EGN 3365, EGN 3520, EGN 3353 or permission of instructor.

EML 4601 Refrigeration and Air Conditioning Principles (3). The theory, operation, and control of various types of cooling systems. Prerequisite: EGN 3343.

EML 4601L Refrigeration and Air Conditioning Lab (2). Experiments in Air Conditioning and Refrigeration applications. Corequisite: EML 4601.

EML 4603 Air Conditioning Design I (3), Psychometry comfort; mechanical refrigeration; heat pumps load calculations; cooling coil performance; heating and humidification; and distribution duct design fans. Prerequisite: EML 4601 or permission of instructor

EML 4705 Gas Dynamics (3). Basic equations of motion for the flow of a compressible fluid, isontropic flow, normal and oblique shock waves, linearized flows method of characteristics and supersonic thin-air foil theory Prerequisites: EGN 3353, EGN 3343.

EML 4706 Design of Thermal and Fluid Systems (3). Design of thermal and Iluid systems and components. Piping networks, duct works. Selection of pumps and fittings. Basic design of heat exchangers, turbomachinory, pumps, and fans. Prorequisites: EGN 3353. EML 4140. EML 3101.

EML 4905 Senior Design Project (1-3). Project course introducing methods of research, a survey, analysis, or apparatus project in mechanical engineering or a research on a current problem in engineering. Prerequisite: Senior standing and approval by advisor.

EML 4906L Mechanical Lab I (1). Experiments with various types of mechanical equipment including engines, fans, boilers, pumps, and motions and mechanics. Corequisites: EGN 3343, EGN 3353, and (EML 4220 or permission of advisor).

EML 4930 Special Topics/Projects (1-3), Individual conferences, assigned readings, and reports on independent investigations selected by the students and professor with approval of advisor.

EML 4936 Mechanical Engineering Seminar (1). Review sessions will include topics covering recent advances in various sub-specialties of Mechanical Engineering topics related to professional practices. Prerequisite: Senior standing.

EML 4949 Co-op Work Experience (3). Supervised full-time work experience in engineering field. Limited to students admitted to the co-op program with consent of advisor. Evaluation and reports required.

EML 5103 Intermediate Thermodynamics (3). Thermodynamic approach to processes and engines; alternative formulations and legendre transformations; maxwell relations, first and second order phase transitions. Prerequisites: EML 4101 and EGM 3311.

EML 5104 Classical Thermodynamics (3). Mathematical analysis of the laws of classical reversible and irreversible thermodynamics. Applications to mechanical, electromagnetic, and chemical systems, under ideal and real current interest. Prerequisite: EML 3101.

EML 5125 Classical Dynamics (3). Kinematics of Ingid body motion, Eulerian angles, lagrangian equations of motion, inertia tensor, momental ellipsoid Rigid-body equations of motion, Euler's equations, force-free motion, polhade and herpolhade, theory of tops and gyroscopes Variational principles Hamiltonian equations of motion. Poinsoto roprosentation. Prerequisites: MAP 3302 and EGN 3321.

EML 5152 Intermediate Heat Transfer (3). Multi-dimensional heat conduction under steady and transiont conditions Heat, mass and momentum transfer Radiation heat transfer Gas radiation Free and forced convection Pruroquisites EML 4140 and EML 5709 EML 5153 Advanced Heat Transfer (3). Review of analogies among heat, mass and momentum transfer. Free and forced convection from theoretical and experimental viewpoint for laminar and turbulent flows. Film and dropwise condensation. Prerequisite: EML 5152.

EML 5277 Computer Alded Design and Analysis of Mechanical Systems (3). Computer aided geometrical modeling of spatial mechanical systems. Design criteria and analytical approaches for planer kinematic systems will be emphasized. Prerequisites: EML 4260 and EML 4535.

EML 5562 Advanced Electronic Packaging (3). Advanced topics in electronic packaging Evaluation of first through fourth level assembly. Applications of computer layout design, thermal management and mechanical stability analysis. Prerequisite: EML 4561 or permission of instructor.

EML 5708 Advanced Design of Thermal and Fluid System (3). Advanced designs of pumps, compressors, heat exchangers, HVAC systems and thermal and lluid control devices. Prerequisite: EML 4706.

EML 5709 Intermediate Fluid Mechanics (3). Basic concepts and scope of fluid dynamics; non-inertial reference frames. Two-dimensional potential theory. Applications to airfoils. The Navier-Stokes equations; selected exact and approximate equations. Prerequisite: EGN 3353.

EML 5712 Advanced Fluid Mechanics I (3). Turbulent flows with emphasis on engineering methods. Momentum, energy, and species transfer. Production, dissipation, and scaling laws for turbulence. Mixing length, effective viscosity, Prerequisite: EML 5709.

EML 5715 Computational Fluid Dynamics (3). Basic computational methods for incompressible and compressible flows. Methods for solving the stream function equation. Boundary conditions for vorticity and steam function equations. Finite difference and finite element techniques. Prerequisites: CGS 3420, EML 5712.

EML 6154 Conduction Heat Transfer (3). Heat transfer by conduction for steady and unsteady One and Multidimensional systems with and without heat generation. Temperature distribution analysis using analytical and computational methods. Prerequisite: EML 5152.

EML 6155 Convection Heat Transfer (3). Development and solution of

governing equations of parallel flows, boundary layer flows, instability and turbulence with convection heat transfer. Prerequisite: EML 6155.

EML 6223 Advanced Mechanical Vibration Analysis (3). Multidegree of freedom systems, discrete and continuous systems; vibration control and introduction to vibration of non linear systems. Prerequisite: EML 4220.

EML 6233 Fatigue and Failure Analysis (3). A study of the theoretical and practical aspects of material failure including failure modes, life prediction, corrosion with the goal of designing a sale product. Prerequisite: EGM 5615.

EML 6532 Advanced Application In Mechanical Computer Aided Design (3). Advanced CAD techniques in design of mechanical systems. Architecture of CAD systems including database applications. Advanced computational geometry student programming. Prerequisites: EML 4535 and EML 5265.

EML 6714 Advanced Gas Dynamics (3). Thermodynamic and fluid mechanics principles to high speed flows flows to be studied include flows with triction and heat loss/addition. Prerequisite: EML 4705.

EML 6805 Advanced Kinematics of Mechanisms and Robots (3). Kinematic analysis of mechanisms and robot arms, geometric configurations, analytical and numerical methods in kinematics. Prerequisite: EML 5265.

EML 6908 Independent Studies (1-3). Individual research studies available for qualified graduate students. The work is to be performed under the supervision of an advisor. A report is to be submitted. Students may register for 1 to 3 credits per semester. Prerequisite: Advisor's permission.

EML 6971 Masters Thesis (1-6). Masters thesis in any advanced topic, a report is to be submitted and an oral presentation is to be made. Students may register for 1 to 3 credits per semester. Total of 6 credits to be earned. Prerequisite: Advisor's permission.

Professional Certificate Programs

Department of Apparel Studies Advanced Apparel Design

To enter the program, students must have an Associate of Arts or Associate in Science in Fashion Design, or equivalent, or two years of industry

experience in design. Students must have completed the following prerequisite courses or have industry experience in these areas: Patternmaking I and II, Draping I and II, Fashion Illustration, Garment Construction, and Design I and II. Students must pass a competency test prior to entering the program. This certificate has been recommended and approved by the Apparel Design Industry Advisory Committee. A minimum grade of 'C' or better is required in all courses for completion of the certificate.

Required Courses: (23 semester hours) CTE 3715 Fabrication of Design CTE 3755 Advanced Pattern and Draping

Design Electives: Select four courses

Menswear Design CTE 3771L CTE 3772L Childrenswear Design 2 2 CTE 4774L Womenswear Design CTE 4775L Sportswear Design CTE 4773L Active Sportswear Design CTE 4770L Swimwear Design General Electives (Select three courses): (8) Commercial Garment Production I

 CTE 3363L
 Commercial Garment Production I
 3

 CTE 3748L
 Pattern Grading
 2

 CTE 3733L
 Fashion Illustration Industrial Apparel Assembly and Costing Asparel Quality Assurance
 3

Apparel Manufacturing Management

A Professional Certificate is offered in Apparel Manufacturing Management acknowledging that students have demonstrated manufacturing management competencies specifically related to the apparel industry. This Certificate is primarily designed to meet the needs of those presently employed in the apparel industry who desire the management skills necessary for career effectiveness and mobility. The courses are planned and taught under the guidance of an advisory committee of local leaders in the apparel industry.

A Certificate in Apparel Manufacturing Management will be awarded upon satisfactory completion of twenty-five credits as listed in the Certificate requirements. These courses may be taken by non-degree seeking students with the advice of the Certificate Program Director. Students should complete an application form at the time of their first course registration. A minimum grade of 'C' is required in all courses.

Required Cou	rses: (25 semester hour	s)
CTE 3461	Apparel Fabrics	2
CTE 3742L	Commercial Pattern	
	Analysis	2
CTE 3743L	Pattern Grading	_
	Analysis	2
CTE 3762L	Cutting Analysis and	_
	Material Utilization	3
·CTE 3763L	Machine Evaluation	Ĭ
0.20.002	and Selection	3
CTE 3766L	Apparel Work	Ť
	Measurement	3
CTE 4767	Apparel Quality	
	Assurance	3
CTE 4768L	Industrial Apparel	-
	Assembly and Costing	3
CTE 4769L	Apparel Production	
	Planning and	
	Scheduling	4

Apparel Merchandising Management

This certificate is offered to students who have completed at least two years of college and would like to gain knowledge in Apparel Merchandising Management. It is not necessary that prior college courses be in apparel related fields. This certificate program has been recommended and approved by the Apparel Merchandising Industry Advisory Committee. However, students should be advised that most major department stores require a Bachelor's degree for entrance into their executive training programs. A minimum grade of 'C' or better is required in all courses for completion of the certificate.

Required Courses: (16 semester hours)

hours)		
CTE 3401L	Survey of Textiles	4
CTE 3761	Fashion Production	
	and Distribution	3
CTE 3815	Apparel Retail	
	Operations I	3
CTE 3821	Quantitative	
	Decisions I	3
CTE 4827	Fashion Buying	3

Elective Courses: Select two courses

(6 semester		••
CTE 4822	Quantitative	
	Decisions II	3
CTE 3852	Visual Merchandising	3
CTE 4832	Apparel Inventory	
	Management	3
CTE 4842	Preduct Knowledge	3
CTE 4851	Fashion Promotion	3
CTE 4814	Apparel	
	Entrepreneurship	3

Department of Industrial Engineering Industrial Safety

The objective of the Professional Certificate Program in Industrial Safety is to present an integrated learning experience that will provide the student with a minimum level of expertise in the specialized area of Occupational Safety. Particular emphasis will be placed on application, interpretation, and administration of the Federal Occupational Safety and Health Act and other regulations in an industrial setting.

The certificate is intended to provide skills which will be directly applied in industry.

The Certificate will be awarded to any student who successfully completes a specified 18 credit program with a grade of 'C' or higher.

Industrial and Labor Relations

The objective of the Professional Certificate Program in Industrial and Labor Relations is to produce options to both baccalaureate degree seeking students and pre- and post-baccalaureate students in the fields of Labor Studies, Industrial Personnel Operations, and Collective Bargaining and Labor-Management Relations.

The Certificate will be awarded to any student who successfully completes a specified 18 credit program with a grade of 'C' or higher.

Production and Manufacturing

The objective of the Professional Certificate Program in Production and Manufacturing is to provide students desiring professional work in the field of Production and Manufacturing with a sequence of courses which will update those students already employed and will satisfy local industry's need for technologically skilled individuals in Production and Manufacturing. The Certificate includes courses designed to give the student knowledge of processes, cost, planning and control in addition to electives in specialized subjects.

The Certificate will be awarded to any student who successfully completes a specified 18 credit program with a grade of 'C' or higher.

Department of Mechanical Engineering Heating, Ventilation, and Air Conditioning Design

Coordinator,: Rene Leonard, Associate Professor

The purpose of this Professional Certificate program is to produce a learning experience that will enhance the design capabilities of professionals in the field Emphasis will include engineering science background as well as practical applications of systems design.

Interested applicants must contact the department chairperson or the coordinator prior to registering for the program

program.		
The Cert	tificate will be awarded to	•
a student who	successfully	
demonstrates	competency in:	
EGN 3343	Thermodynamics I	3
BCN 3560	Mechanical Systems in	
	Construction	3
EML 3450	Energy Systems	3
EML 4930	Special Topics 1	-3
EML 4601	Principles of Air	
	Conditioning and	
	Refrigeration	3
EML 4603	Air Conditioning	
	Design I	3
EML 4906L	Mechanical	
	Laboratory I	2
EML 4601L	Air Conditioning and	
	Refrigeration	
	Laboratory	2
EIN 3354	Engineering Economy	3

Drinking Water Research Center

William J. Cooper, Director

The Drinking Water Research Center conducts basic and applied studies in the area of water resources as it relates to drinking water quality and quantity. The Center also provides the opportunity for undergraduate and graduate students to conduct independent research in cooperation with other departments in the University. See the General Information section 'Centers and Institutes' for more details regarding the Center.

Staff

William J Cooper, Ph D (University of Mami), Associate Research Scholar/Scientist and Director Ronald D Jones, Ph D (Oregon State University), Assistant Professor Frances Parsons, Ph D (University of Miami), Associate Research Scholar/Scientist

College of Engineering and Design

Dean Associate Dean	Gordon R. Hopkins Manuel R. Cereljo
Associate Dean (Ad Chairpersons	
Apparel Studies	Adele Smith

Civil and Environmental
Engineering Luls Prieto-Portar
Construction Management
(Acting) Oktay Ural

Electrical

Engineering James R. Story

Industrial Engineering Fredrick Swift Landscape Architecture

Architecture Studies (Acting)

Leonardo Alvarez
Mechanical Engineering Gautam Ray
Directors:

Drinking Water Research

Center William J. Cooper International Association for Housing Science Oktay Ural

Computer-Aided Engineering
Center Nell Hoot-Cooper
Coordinators:

FEEDS (Florida Engineering Educational Delivery Systems) Debra Sheridan STAC (Southern Technology Application

Adriana Y. Cantillo

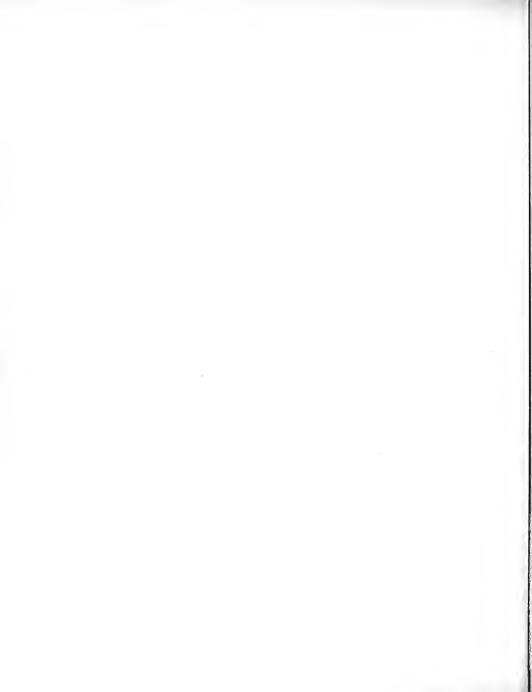
Faculty

- Alvarez, Leonardo, M.S. (Harvard University), Assistant Professor, Landscape Architecture and Acting Chairperson, Landscape Architecture and Architecture Studies
- Andrian, Jean, Ph.D. (University of Florida), Assistant Professor, Electrical Engineering
- Aurioles, Gabriel, Ed.D. (Florida Atlantic University), Associate Professor, Construction Management
- Bablj, Tadeusz, Ph.D. (Technical University, Wroclaw, Poland), Associate Professor, Electrical Engineering
- Bassett, William, M.E. (Florida International University), Assistant Prolessor, Construction Management
- Canaves, Jalme, M.A., R.A. (University of Florida), Associate Professor, Interior Design
- Cantilio, Adriana Y. Ph.D. (University of Maryland), Coordinator, STAC
- Carrasco, Hector R., Ph.D. (Texas A&M), Assistant Professor, Industrial Engineering
- Cereljo, Manuel R., D.Sc., P.E., D.Sc. (Universidad Central), MSEE (Georgia Institute of Technology), Professor, Electrical Engineering, and Associate Dean
- Chaudhari, Bhaskar S., Ph.D., P.E. (University of Pennsylvania), Professor, Construction Management
- Chelliah, S., Ph.D. (Purdue University), Assistant Professor, Mechanical Engineering
- Cooper, William, Ph.D. (University of Miami), Director, Drinking Water Research Center
- Ebadian, Mohammed A., Ph.D. (Louisiana State University), Associate Professor, Mechanical Engineering
- Farmer, Eugene, M.A. (University of Illinois), Assistant Professor, Construction Management

- Fennema, Robert J., Ph.D. (Washington State University), Assistant Professor, Civil and Environmental Engineering
- Greenfield, Jeffrey H., Ph.D. (University of Pittsburgh), Assistant Prolessor, Civil and Environmental Engineering
- Grosabard, Judy ,M.A., M.F.A. (University of Miami), Instructor, Apparel Studies
- Hagmann, Mark J., Ph.D. (University of Utah), Associate Professor, Electrical Engineering
- Helmer, Malcom L., Ph. D. (Penn State University), Associate Professor, Electrical Engineering
- Hopkins, Gordon R., Ph.D (University of Alabama), Dean and Prolessor, Mechanical Engineering
- Hout-Cooper, Neil M., Ph.D. (Florida Atlantic University), Assistant Professor and Director, Computer Aided Engineering
- Howard, Greta, M.Sc. (Florida International University), Lecturer, Apparel Studies
- Jones, William K., Ph.D. (Massachusetts Institute of Technology), Associate Professor, Mechanical Engineering
- Kengskool, Khokiat, Ph.D. (University of Missouri), Assistant Professor, Industrial Engineering
- Larkins, Grover L., Ph.D. (Case Western Reserve University), Assistant Professor, Electrical Engineering
- Lee, Shih-Ming, Ph.D. (Iowa State University), Assistant Professor, Industrial Engineering
- Leonard, Rene J., D.A., P.E. (University of Miami), Associate Prolessor, Mechanical Engineering
- Levy, Cesar, Ph.D. (Stanford University), Assistant Professor, Mechanical Engineering
- Lopez-Mata, Gisela, M.S. (Pratt Institute), Assistant Professor, Interior Design
- Lozano, Jose M., M.S. (Kent State University), Assistant Professor, Interior Design
- Majzub, Iraj E., D. Arch., R.A. (University of Torino), Professor, Interior Design
- Martinez, Sergio, M.S. (New York University), Lecturer, Industrial Engineering
- Merkel, Robert S., Ph.D. (Institute of Textile Technology), Associate Professor, Apparel Studies
- Mohammed, Osama A., Ph.D. (Virginia Polytech.), Associate Prolessor, Electrical Engineering
- Narbaitz, Roberto M., Ph.D., P.E. (McMaster University), Assistant Professor, Civil and Environmental Engineering

- Nunez, German, Ph.D. (Texas A&M University), Associate Professor, Industrial Engineering
- Otazo, Julio O., M.A. Arch., R.A. (University of Florida), Assistant Professor, Construction Management
- Prieto-Portar, Luis A., Ph.D. P.E. (Princeton University), Associate Professor and Chairperson, Civil and Environmental Engineering
- Raman, Vijay R., Ph.D. (University of Notre Dame), Assistant Professor, Electrical Engineering
- Ray, Gautam, Ph.D. (Pennsylvania State University), Professor and Chairperson, Mechanical Engineering
- Rolg, Gustavo, Ph.D. (University of Florida), Associate Prolessor, Electrical Engineering
- Ruiz, Laura, M.S. (Florida International University), Instructor, Electrical Engineering
- Salaga, VIvian O., M.A. (Kent State University), Assistant Professor, Construction Management
- Sanderson, John, MUP (Wayne State University), Associate Professor, Landscape Architecture
- Schimdt, Pierre, Ph.D. (Pennsylvania State University), Professor, Electrical Engineering
- Shen, Lon-II, Ph.D., P.E. (Clemson University), Assistant Professor, Civil and Environmental Engineering
- Sheridan, Debra, B.S. (University of Florida), Coordinator, FEEDS
- Smlth, Adele E., M.S. (Auburn University), Associate Professor and Chairperson, Apparel Studies and Acting Associate Dean
- Story, James R., Ph.D. (University of Alabama), Chairperson and Associate Professor, Electrical Engineering
- Subbarao, Wunnava V., Ph.D., P.E. (Andhra University), Professor, Electrical Engineering
- Surtl, Vasant H., Ph.D. P.E. (Catholic University of America), Professor, Civil and Environmental Engineering
- Swift, Fredrick, Ph.D. (Oklahoma State University), Professor and Chairperson, Industrial Engineering
- Tall, Lambert, Ph.D., P.E. (Lehigh University), Professor, Civil and Environmental Engineering
- Thompson, LeRoy E., Ph.D., P.E. (Rice University), Professor, Civil and Environmental Engineering
- Torres, Milton, M.A.E. (University of Oklahoma), Lecturer, Industrial Engineering
- Ural, Oktay, Ph.Ď., P.E. (North Carolina State University), Director, International Association for

- Housing Science and Professor, Civil and Environmental Engineering and Acting Chairperson, Construction Management
- Villate, Jose T., Ph.D., P.E. (University of Wisconsin), Professor, Civil and Environmental Engineering
- Wang, Ton-Lo Tony, Ph.D. (Illinois Institute of Technology), Assistant Professor, Civil and
- Environmental Engineering
 Wu, Kueng-Hsi, Ph.D. P.E. (University
 of Illinois), Assistant Professor,
 Mechanical Engineering
- Yen, Kang K., Ph.D. (Vanderbilt University), Assistant Professor, Electrical Engineering
- Yih, Techung, Ph.D. (Catholic University of America) Assistant Professor, Mechanical Engineering



College of Health

College of Health

The College of Health offers programs of professional study in the health professions and promotes articulation between the academic units and clinical, experiential settings. Approximately 300 different clinical centers are utilized in the various degree programs. The academic departments of the College offer courses of study leading to a baccalaureate degree in Dietetics and Nutrition, Medical Laboratory Science, Medical Records Administration. Occupational Therapy, Physical Therapy and Prosthetics and Orthotics. Master's degrees are offered in Dietetics and Nutrition, Medical Laboratory Science, Occupational Therapy, and Public Health. All degree programs are fully accredited by their respective professional accrediting body.

Applicants to the College must submit an Application for Admission to the University and must follow regular University procedures, Applicants must be eligible for admission to the University before being admitted to any degree program. Students interested in admission to any department or program in the College should contact the unit for specific prerequisites and admission requirements. Specialized admission procedures are required for the Dietetics Coordinated Undergraduate Program, Medical Laboratory Science. Occupational Therapy, Physical Therapy, and Prosthetics and Orthotics programs.

The mission of the College of Health is to: 1. Prepare health professionals at

- the undergraduate and graduate levels.
 - 2. Perform basic applied research. 3. Provide services which respond
- to health needs at local, state, national, and international levels.

Note: The programs, policies, requirements and regulations listed in this catalog are continually subject to review, in order to serve the needs of the University's various publics, and to respond to the mandates of the Florida Board of Regents and the Florida Legislature. Changes may be made without advance notice. Please refer to the General Information section for the University's policies, requirements, and regulations.

Dietetics and Nutrition

Nancy S. Wellman, Associate Professor and Chairperson Katharine R. Curry, Professor Penelope S. Easton, Professor Emeritus

Evelyn B. Enrlone, Assistant Professor

Susan P. Himburg. Associate Professor and Director. Coordinated Undergraduate Program June C. Wolgemuth, Assistant

Professor

The Department offers a major leading to a baccalaureate degree in dietetics and nutrition, and courses in nutrition for interested students. The Department offers a Master of Science degree in dietetics and nutrition with areas of concentration in clinical and community dietetics or dietetic management. The undergraduate programs are designed to assist the student to gain basic practitioner knowledge and skills. The graduate program prepares the student to assume leadership responsibilities in health care institutions, community health agencies, or private practice. The graduate program allows for concentration in research or field application.

Undergraduate Programs

Degree: Bachelor of Science

Coordinated Undergraduate Program

The Coordinated Undergraduate Program meets both academic and experience requirements of the American Dietetic Association for active membership.

The University student must make formal application to the Department for the clinical portion of the program by March 1 before Fall admission to the junior year. This special application form can be obtained from the Department. Students must enroll in DIE 3005-Orientation to Dietetics the summer prior to Fall admission. Clinical courses are sequential and require two years to complete. Clinical experiences are available in several hospitals and other health agencies. Students must satisfactorily complete a written comprehensive exam to graduate from the program.

Students must receive a grade of 'C' or higher in all courses in the department.

Lower Division Preparation

Students desiring to major in general dietetics and nutrition need the following FIU course equivalents in addition to completing the general education requirements:

APB 2170	Introductory	
	Microbiology	3
APB 2170L	Introductory	
	Microbiology Lab	- 1
CHM 1045	General Chemistry I	4
CHM 1045L	General Chemistry I	
	Lab	- 1

CHM 1046 CHM 1046L	General Chemistry II	3
CHM 1046L	General Chemistry II Lab	1
CHM 3210	Organic Chemistry I	4
CHM 3210	Organic Chemistry I	
	Lab	1
CHM 3211	Organic Chemistry II	3
CHM 3211L	Organic Chemistry II	
	Lab	1
011110000	or	
CHM 3200	Survey of Organic	_
CHM 3200L	Chemistry	3
CHM 3200L	Survey of Organic	
F00 0040	Chemistry Lab	3
ECO 2013	Macro Principles	
FOS 3021	Fundamentals of Food	3
FOS 3021L	Fundamentals of	
	Food Lab	1
HUN 2201	Principles of Nutrition	3
MAN 3025	Organization and	
	Management	1
PSY 2020	Introduction to	
	Psychology	3
SYG 2000	Introduction to	
	Sociology	3

FIU undergraduates must have met all lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program.

Upper Division Program Required Courses:

Junior Year

Summer Sen	nester
DIE 3005	Orientation to Clinical
	Dietetics ¹

Fall Semester

TUN 4403	Life Cycle Nutrition	J
DIE 3317	Dietetics in	
	Community Health	3
DIE 3355	Dietetics in Community	
	Health Practicum ¹	4
FSS 3316	Food Science for	
	Institutions	3
PCB 3702	Intermediate	
	Physiology	3

Spring Semester

DIE	3125	Management of	
		Dietary Systems	3
DIE	3175	Management of Dietary	
		Systems Practicum ¹	6
DIE	3244	Diet Therapy I	3
DIE	3244L	Applied Diet Therapy	2
	S 4041	Food Science	3
FO	S 4041L	Food Science Lab	1

Summer Semester

HUN 4241	Nutrition II	3
BCH 3033	Introductory	
	Biochemistry	3

Senior Year

3

raii Semester		
DIE 4246	Diet Therapy II	

DIE 4277	Diet Therapy II			Management of
	Practicum ¹	6		Nutrition Programs
DIE 4365	Dietetic Management	-	DIE 4435	Dietetic Instruction
	of Nutrition Programs	3		and Counseling
DIE 4377	Applied Dietetic		DIE 4435L	Dietetic Instruction
	Management of			and Counseling Lab
	Nutrition Programs	2	DIE 4506	Senior Seminar
DIE 4435	Dietetic Instruction		HUN 4241	Nutrition II
	and Counseling	3	HUN 4403	Life Cycle Nutrition
DIE 4435L	Dietetic Instruction		FOS 4041	Food Science
	and Counseling Lab	1	FOS 4041L	Food Science Lab
	•		FSS 3316	Food Science for
				Institutions
Spring Seme			BCH 3033	General Biochemistry
DIE 4536	Advanced Clinical		PCB 3702	Intermediate Human
	Practicum ¹	15	. 00 0.00	Physiology
DIE 4506	Seminar in Dietetics			Filysiology
	and Nutrition	3	Recommend	ed Electives: Selected

Recommended Electives: Selected courses in areas: computer science, education, statistics, social work, health science, adult education, business, anthropology, sociology.

1These courses are open only to students in the Coordinated Undergraduate Program, must be taken concurrently with the related dietetic courses, and must be taken in the order listed. Clinical experiences are supervised by the course instructors and are located in hospitals, health agencies, and school food service programs.

Traditional Degree Program

This program meets the academic requirements for membership in the American Dietetic Association (Plan V). Students in this program must complete the same lower division requirements as stated for the Coordinated Undergraduate Program.

Üpon completion of this program, students may apply to an accredited dietetic internship to obtain the professional experience required to become eligible for the Registration Examination of the American Dietetic Association

This program awards a Bachelor of Science degree. Students must obtain a grade of "C" in all courses in the department.

To be admitted into the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program.

General Emphasis Upper Division Program Required Courses:

DIE 3005	Orientation to	
	Dietetics	2
DIE 3125	Management of	
	Dietary Systems	3
DIE 3244	Diet Thorapy I	3
DIE 3244L	Applied Diet Therapy	2
DIE 3317	Dietotics in	
	Community Health	3
DIE 4246	Diet Thorapy II	3
DIE 4365	Management of	
	Nutrition Programs	3
DIE 4377	Applied Dietetic	

Minor in Nutrition

A twelve credit nutrition course sequence at the undergraduate level affords students the opportunity to study food and nutrients, their physiological functions, normal nutritional requirements, socio-economic influences on food choices and other aspects of food technology. The required science loundation courses provide the necessary background of chemistry and biological sciences to understand the physiological and biochemical basis of nutrition, as a multi-disciplinary science with relevance to health. Students minoring in nutrition learn to interpret nutrition research and contemporary claims and theories as a basis for improving lood habits.

Minor Requirements:

HUN 2201	Principles of Nutrition	3		
HUN 4403	Life Cycle Nutrition	3		
HUN 4241	Nutrition II ¹	3		
¹ Prerequisite: Human Physiology,				
Organic Chemistry; corequisite:				
Biochemistry				

in addition one of the following

courses:			
HUN 3191	World Prospects and		
	Issues: Nutrition	3	
FOS 3021	Fundamentals of		
	Food and	3	
FOS 3021L	Fundamentals of		
	Food Lab	1	
FOS 3004	Food and the		
	Consumer	4	
FSS 3215	Meal Management	3	
FOS 4041 &			
FOS 4041L	Food Science ¹	4	
¹ Prerequisite: FOS 3021, FOS 3021L,			
and HUN 220	1		

Graduate Programs

Admission to a graduate program

requires completion of The American Dietetic Association (ADA) academic requirements. Interested students with undergraduate degrees in related fields may be eligible for enrollment upon completion of graduate course prerequisites. All students must complete ADA academic requirements prior to completion of their graduate degree. An appointment should be made to discuss exceptions and unusual circumstances whereby several graduate courses may count doubly in meeting graduate degree requirements and ADA academic requirements.

2

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Minimum entrance requirements under current Board of Regents policy must be met. This includes a combined score of 1000 on the Verbal and Quantitative Aptitude Tests of the Graduate Record Examination or at least a 'B' (3.0) average in all upper division work. Application procedures for admission to the program are in the discussion of University procedure for admission to graduate study. A personal interview or suitable letters of reference are required for admission.

The Department offers a graduate program leading to the Master of Science degree in Dietetics and Nutrition, with a concentration in either Clinical and Community Dietetics or Dietetic Management. The program is designed to meet the needs of the professional practitioner. Graduate assistantships are available.

The Clinical and Community Dietetic track allows concentration in nutrition research or applied nutrition. Students may prepare themselves for positions of responsibility in nutritional care administration, community health agencies, or private practice. The Dietetic Management track builds on the food service systems background to broaden management skills and expertise. Several advanced courses in the School of Hospitality Management and the College of Business Administration are recommended in the program of study. Graduates may assume directorships of Nutrition, Food and Dietetic Services Departments.

Students who are candidates for the Master of Science degree in Dietetics and Nutrition must complete a minimum of 37 semester hours of graduate study, including at least 30 hours at this University All coursework must be recont enough to be relevant to the field of nutrition today.

An Advanced Practicum option is available which meets profussional experience requirements of The Amorican Diototic Association (ADA) Limited enrollment for these additional nine semester hours is contingent upon Departmental and prior ADA approval

Students' programs will be

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planned to support their career goals in consultation with the assigned faculty advisor. The proposed program of study will be filed in the office of the Chairperson of the Department of Dietetics and Nutrition by the end of the student's first semester of full-time study.

Retention in the Master of Science in Dietetics and Nutrition program requires maintenance of a 3.0 GPA. Successful completion of the program requires oral and written examinations for students choosing the non-thesis option.

Degree: Master of Science in Dietetics and Nutrition

Course Regulrements:

Required Research Core: (13-16

semester hou	rs)	
DIE 6568	Research Methods in	
	Dietetics	3
DIE 6578	Field Research	
	Methods	
	or	
HUN 6558	Laboratory Research	
	Methods	2
DIE 6937	Graduate Seminar	
	in Dietetics	1,1
STA 5166	Statistical Methods	
	in Research	3
DIE 6971	Thesis in Dietetics	6
	or	
DIE 6908	Supervised Field	
	Study in Dietetics	3

Scientific Knowledge (3 semester hours)

HUN 5245	Nutrition and	
	Biochemistry 1	
	or -	
HUN 6247	Nutritional	
	Pathophysiology	3
FOS 6044	Advanced Food	
	Science ²	3
Or Recomme	ended Electives	

Application to Discipline (6-12 semester hours)

semester hou	rs)	
DIE 6368	Advanced Techniques	
	in Dietetic Practice ^{1,2}	2
DIE 6369L	Advanced Techniques	
	in Dietetic Practice	
	Lab ^{1,2}	1
DIE 5247	Diet in Disease	
	Prevention and	
	Treatment ¹	
	or	
DIE 6593	Special Topics in	
	Dietetics	3
DIE 6128	Advanced Management	
	of Dietary Systems ²	3
HUN 6521	Advanced Community	
	Nutrition [†]	
	or	
HUN 6408	Advanced Life Cycle	
	Nutrition	3
HUN 5123	Ethnic Foods and	

	Nutrition	3
HUN 5611	Nutrition Education	
	in the Community	3
HUN 5621	Food, Nutrition and	
	Communication	3
Or Recommer	ded Electives	

¹Required for Clinical/Community Track ²Required for Administrative Track

Degree: Master of Public Health

An MPH degree is offered by the Department of Public Health with a concentration in Nutrition in conjunction with the Department of Dietetics and Nutrition. The goal of this degree program is to prepare the public health nutritionist to take a leadership role on the public health management team and to become an expert technical resource person.

The specialty concentration in Nutrition is designed to provide a background in the science and practice of public health including program planning, management, and evaluation; human nutrition and lood science and their relationships to health; and a working knowledge of public health nutrition programs and services.

The MPH Nutrition concentration requires 45 hours of graduate coursework including:

Public Health core curriculum	15-18
Nutrition required courses	15-18
Nutrition electives	3-6
Field experience	3
Field research project	3

Pursuit of this degree requires class attendance on both University campuses. For non-Registered Dietitians, community field experience incorporated into this graduate program is designed to meet ADA requirements. Field experiences require transportation availability. Prospective students should contact both departments.

Course Descriptions

Definition of Prefixes

DIE-Dietetics; FOS-Food Science; FSS-Food Service Systems; HUN-Human Nutrition

DIE 3005 Orientation to Dietetics (2). Survey of role and responsibilities of the dietitian. Legal and ethical considerations necessary for the student dietitian in clinical experiences. Educational and personal qualifications for specialization in dietetics. Prerequisite: Application to the Coordinated Undergraduate Program or Plan V Program. DIE 3125 Management of Dietery Systems (3). Survey of various types of institutional lood service systems; management concepts in planning, implementing, and evaluating food service systems. Prerequisites: Basic Management, Quantity Food Preparation.

DIE 3175 Management of Dietary Systems Practicum (6). Developing skills for DIE 3125. Clinical assignments in several food service institutions in this area. Clinical component: open only to students in the Coordinated Undergraduate Program. Prerequisite: DIE 3355.

DIE 3244 Diet Therapy I (3). Techniques of adjusting nutrints and food intake to accommodate medical treatments and previous nutriture. Menu writing and analysis, translation of dietary prescriptions, techniques of dietary instruction, dietary histories. Prerequisites: HUN 2201, DIE 3317, HUN 4403, Physiology.

DIE 3244L Applled Diet Therapy (2). Observation and participation in dietary treatment activities in clinical institutions and simulated settings; application of menu writing, techniques of diet history and instruction. Corequisite: DIE 3244.

DIE 3317 Dietetics in Community Heatth (3). Study of community agencies providing nutrition guidance for differing age groups. Emphasis on nutritional and educational needs of clients. Prerequisites: HUN 2201, DIE 3005. Prerequisite or Corequisite: HUN 4403.

DIE 3355 Dietetlcs in Community Health Practicum (4). Observation and participation in activities of community agencies. Nutrition education and counseling experiences. Clinical component: Open only to students in the Coordinated Undergraduate Program. Corequisite: DIE 3317.

DIE 4195 Special Problems in Dietetic Administration (1-3). In-depth study of a problem in dietetic administration chosen to coincide with a student's interest and career goals. Student will develop objectives stated in behavioral terms and demonstrate skills in information gathering, analysis, and technical writing. Prerequisite: Permission of instructor

DIE 4246 Diet Therapy II (3). Study of the complex dietetic problems accompanying metabolic disorders. Determination of nutrient requirements based on medical and individual needs. Prerequisites: DIE 3244, DIE 3244L. DIE 4277 Diet Therapy II Practicum (6). Participation in activities in clinical affiliations focusing on nutritional assessment, planning, treatment and follow-up of patients. Clinical component: open only to students in the Coordinated Undergraduate Program. Corequisite: DIE 4246.

DIE 4296 Special Problems in General Dieteites (1-3). In-depth study of a problem chosen to coincide with student's interest and career goals. Student develops behavioral objectives and demonstrates skills in information gathering, analysis and technical writing. Prerequisite: Permission of instructor.

DIE 4365 Dietetic Management of Nutrition Programs (3). Advanced concepts of managerial functions as an institutional consultant, a member of a community nutrition program, a private therapeutic consultant, full time institutional food service administrator. Advanced standing required. Prerequisites: DIE 3125 or permission of instructor, basic competency in management principles. Corequisite: DIE 4377.

DIE 4377 Applled Dietette Management of Nutrition Programa (2). Observation and participation in community agencies, institutions, and simulated setting the development of entry level competencies in the management of nutrition and food service programs. Corequisite: DIE 4365.

DIE 4435 Dietetic Instruction and Counseiling (3). Motivational methods and instructional techniques for development of entry level competencies. Advanced standing in dietetics required. Pre or corequisite: DIE 3244. Corequisite: DIE 4435L.

DIE 4435L Dieteite Instruction and Counseling Lab (1). Small group video recorded practice in dietetic instruction and counseling. Prerequisite: Advanced standing in dietetics. Corequisite: DIE 4435.

DIE 4506 Seminar in Dietetics and Nutrition (3). Prolessional skills development for career effectiveness in today's job world; emphasis on speaking and writing related to contemporary nutrition issues. Majors only, senior standing.

DIE 4536 Advanced Clinical Practicum in Dietatica (15). In-depth study combining theoretical concepts and clinical experience. Learning expenence planned cooperatively by the student, campus instructor, and clinical instructor to meet student needs and goals.

Prerequisites: DIE 4246, DIE 4277, and permission of Director of the Coordinated Undergraduate Program. Clinical component: Open only to students in the Coordinated Undergraduate Program.

DIE 5247 Diet in Disease Prevention and Treatment (3). Critical studyhistorical, current, and experimental uses of dietary modifications in the prevention and treatment of diseases. Prerequisite: Completion of American Dietetic Association Plan V.

DIE 5926 Workshop In Dietetics and Nutrition (1-3). Short term intensive development of selective subject matter in dietetics, nutrition, or nutrition education techniques and methods. Prerequisites vary according to subject.

DIE 5946 Advanced Practicum In Community Nutrition (1-6). Preplanned clinical experience at the professional level in community nutrition. Prerequisite: Permission of instructor

DIE 5947 Advanced Practicum In Dietetla Administration and Management (1-6). Pre-planned clinical experience at the professional level in dietetic administration and management. Prerequisite: Permission of instructor.

DIE 5948 Advanced Practicum In Clinical Nutrition (1-6). Pre-planned clinical experience at the professional level in clinical therapeutic nutrition. Prerequisite: Permission of instructor.

DIE 6128 Advanced Menegement of Dietery Systems (3). Application of management and organizational theory to dietetic systems in health and community institutions. Completion of ADA Plan IV (with two management courses) and permission of instructor.

DIE 6368 Advanced Techniques In Dietetlo Practice (2). Techniques and approaches in changing nutritional behavior, establishing private practice, providing dietetic services in various size institutions, hospitals, nursing homes, and in the community Preroquisites. DIE 4435, DIE 4435L or equivalent. Corequisite. DIE 6368

DIE 6369L Advanced Techniques
Dietetic Practice Leb (1). Individual
practice in conducting interviews,
planning nutritional care, changing
nutritional behavior, and providing
dietetic consultation. Prerequisite.
Permission of instructor Corequisite
DIE 6368

DIE 6568 Research Methods in Dietetics (3). Consideration of scientific methods and theoretical orientation as applied to research in dietetics. Special consideration given to various techniques of investigation, data collection, data organization, and interpretation. Prerequisites: Admission to graduate program and permission of instructor.

DIE 6578 Field Research Methods In Dietetics (2). Application of field research methods in interpreting and designing research studies. Introduction to interdisciplinary research approaches Prerequisite: DIE 6568.

DIE 6906 Readings in Dietetics and Nutrition (1-3). Individual advanced study in a comprehensive overview of dietetics and nutrition or in-depth advanced study of a specialty. Prerequisites: Permission of instructor and advanced standing in graduate program.

DIE 5907 Individual Study In Dietetics (1-3). Intensive individual investigation of a phase of dietetics. Emphasis on recent findings in dietetics and allied disciplines. Prerequisite: Permission of the Chairperson of the Department.

DIE 6908 Supervised Field Study In Dietetlos (3). Pre-planned practical experience at the professional level in an area of dietetics. Critical written evaluation by the student, developed with frequent consultation and supervision of instructor. Prerequisites: DIE 6578, 12 hours of graduate study, and permission of instructor.

DIE 6915 Supervised Research (1). Continuation of thesis or field research under thesis director or field study supervisor. Repeatable. Prerequisite: Completion of all other required coursework

DIE 6935 Special Topics in Dietetics (3). In-depth study of historical, epidemiological, prevention, and treatment aspects of topics related to dietetics. Prerequisites: ADA Plan IV competence in topic covered, admission to graduate program.

DIE 6937 Graduete Seminar In Dietetics and Nutrition(1). Presentations by researchers, practitioners, and graduate majors related to advances in theories and applications in nutrition and dietetics. Two semester enrollment required of all graduate students.

DIE 6971 Thesis in Dietetics and Nutrition (3-6). Prerequisites DIE 6578 or HUN 6811, 12 hours of graduate study and permission of Thesis Director FOS 3004 Food and the Consumer (3). Study of purchasing, storage, and preparation of food. Consideration of life style influences on food choicas. Designed to develop skills in purchasing and preparing foods to meet personal, social, and physical needs. Demonstration laboratory included.

FOS 3021 Fundamentals of Food (3). Study of selection, processing, and preparation of food with attention to quality and nutrient retention. Corequisite: FOS 3021L

FOS 3021L Fundamentals of Food Laboratory (1). Techniques of food preparation to maintain nutrients and food quality. Corequisite: FOS 3021.

FOS 4041 Food Science (3). Physical and chemical changes in food occurring as a result of various methods of processing, preparation, and storage. Prerequisites: Organic Chemistry, HUN 3122 or HUN 2201, FOS 3021, or equivalents. Corequisite: FOS 4041L.

FOS 4041L Food Science Laboratory (1). Experimental laboratory in the physical and chemical characteristics of food. Corequisite: FOS 4041.

FOS 6044 Advanced Food Science (3). In-depth study of the various components of foods and the effect of different methods of processing on their physical and chemical characteristics. Prerequisites: ADA Plan V and permission of the instructor.

FSS 3215 Meal Management and Service (3). Development of skills in basic techniques of purchasing, preparation, and service of food for individuals and small groups. Includes laboratory and experiences in demonstration techniques. Pre or corequisites: HUN 3122 or HUN 2201, and FOS 3021 or equivalent, or permission of instructor.

FSS 3316 Food Science For Institutions (3). Proper food handling in institutional settings with use of sound management principles closely coordinated with food science advances and government regulations. Laboratory and field trips to strengthen theoretical concepts. Prerequisite: FOS 3021.

HUN 2201 Principles of Nutrition (3). Nutrients and their inter-relationships, requirements of individuals, and food sources. Investigates current controversies, Iads/Iallacies, and health related issues. Recommended for non-majors.

HUN 3017 Nutrition for Health Professionals (3). Study of basic nutrients and nutritional interrelationships with emphasis on normal nutritional needs for achieving and maintaining health. No prerequisites.

HUN 3122 Nutrition and Culture (3). Nutrients and their interrelationships to lood habits and needs of various population groups. Introduction to the impact of culture in nutriture and study of personal food pattern development. Recommended for non-majors.

HUN 3191 World Prospects/Isaues: Nutrition (3). Exploration of food production, distribution, and consumption patterns of selected nations. Analysis of variables affecting nutritional intake and change, and hunger.

HUN 3240 Metabolic Aspects of Nutritional Status (3). Nutritional components of food and metabolic aspects of nutrients, interaction of nutrients and their degradation and utilization to meet metabolic demands of the body. Prerequisites: nine semester hours chemistry and HUN 2201, or equivalent.

HUN 4241 Nutrition II (3). Roles of nutrients in metabolic processes. Effects of excesses and deficiencies. Prerequisites: Organic Chemistry, Physiology, and HUN 2201 or equivalent. BCH 3033 pre- or corequisite.

HUN 4403 Life Cycle Nutrition (3). Nutrient requirements, dietary adequacy, lood habits, special nutritional concerns during pregnancy, infancy, childhood, adolescence, and adulthood including aging. Prerequisite: HUN 2201 or HUN 3102 or HUN 3017.

HUN 5123 Ethnic influences on Nutriture and Food Habits (3). Systematic study of food habits of various cultural groups. Emphasis on methodology, analysis of data, relationship of food habits to nutritional standards, and corrective measures. Includes laboratory. Prerequisite: Competency in food preparation and nutrition. Recommended for non-majors.

HUN 5195 International Nutrition: Problems, Policies, and Planning (3). Advanced study of magnitude, causes and nature of undernutrition in low income countries; emphasis on programs, planning and policies directed toward alleviating hunger. Prerequisite: Permission of instructor.

HUN 5245 Nutrition and Biochemistry (3). Advanced study of the relationship of nutrition and biochemistry with emphasis on digestion, absorption, metabolism of nutrients, and determination of norms. Prerequisites: ADA Plan IV and permission of instructor.

HUN 5295 Contemporary Issues In Food and Nutrition (3). Updating food and nutrition information through the study of current research.

Recommended for non-majors.

HUN 5611 Nutrition Education In the Community (3). In-depth study of nutrition education information and methods in the community including the nutrition education component of school food service and other congregate meal programs. Prerequisite: Recent courses in nutrition education or permission of instructor.

HUN 5621 Food, Nutrition and Communication (3). Concepts and techniques for effective professional communication with individuals, groups and other professionals. Emphasis on communication via mass media. Prerequisites: Advanced standing, competency in lood and nutrition knowledge.

HUN 6247 Nutritional Pathophysiology (3). Systems of the body in relation to pathological conditions allied to digestion, absorption, metabolism, and other states in which nutrition plays a part in etiology or treatment. Prerequisites: ADA Plan V and permission of instructor.

HUN 6408 Advanced Life Cycle Nutrition (3). In-depth study of nutrient needs of individuals and groups at different stages of life. Emphasis on nutrient inter-relationships and effects of deficiencies and excesses on metabolism. Prerequisite: HUN 4241 or equivalent.

HUN 6521 Advanced Community Nutrition (3). In-depth study of assessment of nutriture in population groups and needs of public for nutrition information. Emphasis on nutrition consultation for health professionals and dietary care. Prerequisite: DIE 3317 or equivalent.

HUN 6811 Laboratory Research Methods in Dietetics (2). Laboratory application of research methods in dietetics. Prerequisites: DIE 6568 and consent of department chairperson.

Medical Laboratory Sciences

Janet A. Lineback, Associate Professor and Chairperson Barbara V. Anderson, Assistant Professor

Manoucher Dezfulian, Associate

Professor William J. Keppler, Professor and Dean

Eugene E. Keran, Assistant Professor Patrick F. Shan, Associate Professor Sylvia L. Smith, Associate Professor

Medical technologists perform complex biological and chemical analyses on blood and other specimens to enable the physician to diagnose and treat disease. Individuals wishing to pursue a career in medical technology should have a strong science background with emphasis on laboratory analytical skills. They must be reliable, conscientious, interested in helping others, and recognize their responsibility for human lives in the practice of modern medicine. Students receive intensive didactic and laboratory training in the areas of clinical chemistry, hematology, immunohematology, and microbiology. Opportunities for employment exist in hospital, government, and industrial clinical laboratories, academic and industrial research laboratories, and in sales and technical services in clinical diagnostic products industries.

The program is approved by the AMA Committee on Allied Health Education and Accreditation (CAHEA). A graduate of the program is eligible to apply for examination and certification by the American Society of Clinical Pathologists' Board of Registry as a Medical Technologist, MT (ASCP); by the National Certification Agency for Medical Laboratory Personnel as a Clinical Laboratory Scientist, CLS (NCA): and for licensure as a Medical Technologist by the State of Florida. Clinical practice is conducted at Baptist, Cedars, Coral Gables, Jackson Memorial, Mercy, and South Miami Hospitals and American Red Cross Blood Services, South Florida Region.

Degree: Bachelor of Science

Lower Division Preparetion

The student seeking admission to professional MLS courses should have: (1) completed a minimum of 60 semester hours in an accredited two or four-year institution, (2) completed all of the general education requirements, (3) earned a minimum cumulative GPA average et 2.5, (4) earned a minimum cumulative GPA of 20 in required science courses, (5) completed the following preparatory courses: two semesters of general biology with laboratory, two semesters of general chemistry with laboratory, two semesters of organic chemistry with laboratory, one semester of quantitative analysis chemistry with laboratory, one semester of general microbiology with laboratory,

one semester of pre-calculus mathematics, one semester of computer programming, and one semester of anatomy or physiology, or both, with laboratory, (Survey or introductory courses in science and mathematics are not acceptable.) Credits in general microbiology or biochemistry, or both, which are more than seven years old must be repeated.

FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program.

Upper Division Program

The University-integrated '2+2' program has limited enrollment. Students are usually admitted to the program in Fall Semester, but may be admitted on a space-available basis in any semester providing prerequisite and corequisite courses have been completed. It is recommended that applications for Fall Semester be received by April 15 but applications will be processed throughout Summer Semester on a space-available basis. An interview may be required. The medical technology professional courses and hospital clinical practice are open only to majors in the program (or by permission of instructor). Entrance to clinical practice depends upon satisfactory evaluation of the student's record by the faculty. Students must satisfactorily complete a written comprehensive examination to graduate from the program.

Required Courses

Fres	shman	Year

Freshman Year			
Fall Semester	(19 semester hours)		
BSC 1010	General Biology I	3	
BSC 1010L	General Biology I Lab	2	
CHM 1045	General Chemistry	4	
CHM 1045L	General Chemistry		
	Lab	1	
MAC 2132	Pre-Calculus Math	3	
ENC 1101	English Composition	3	
Humanities Elective			

Spring Semester (18 semester hours)				
	General Biology II	3		
BSC 1011L	General Biology II Lab	2		
CHM 1046	General Chemistry II	3		
CHM 1046L	General Chemistry II			
	Lab	1		
COP 2172	Programming in BASIC	3		
ENC 1102	English Composition	3		
Social Science	Elective	3		

Sophomore Year

Fall Semester	(20 semester hours)	
PCB 3702	Intermediate Human	
	Physiology	3
PCB 3702L	Intermediate Human	
	Physiology Lab	1

	or	
ZOO 3731	Human Anatomy	3
ZOO 3731L	Human Anatomy	
	Demonstration	1
CHM 3210	Organic Chemistry I	3
CHM 3210L	Organic Chemistry	
	Lab	2
CHM 3120	Quantitative Analysis	4
CHM 3120L	Quantitative Analysis	
	Lab	1
English Comp	osition - Technical Repor	rt
Writing Electiv	e	3
Humanities Ele	ective	3
Carles Como	ster (14 semester hours	١
MCB 3023	General Microbiology	3
MCB 3023L	General Microbiology	
	Lab	1
CHM 3211	Organic Chemistry II	3

Junior Year

English Composition - Technical Report

CHM 3211L

Writing Elective

Social Sciences Elective

Organic Chemistry II

3

3

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Fall Semester	(16 semester hours)	
BCH 3033	General Biochemistry	4
MLS 3038	Basic Techniques	
	in MLS	3
MLS 3605	Clinical I	
	nstrumentation	2
MLS 3605L	Clinical Instrumentation	
	Laboratory	1
MLS 4405	Clinical Microbiology	4
MLS 4405L	Clinical Microbiology	
	Laboratory	3
	•	

Spring Semes	ter (16 semester hours)	
MLS 4505	Clinical Immunology	1
MLS 4505L	Clinical Immunology	
	Laboratory	2
MLS 4460	Advanced	
	Microbiology	3
MLS 4625	Clinical Chemistry	
	Methods	4
MLS 4625L	Clinical Chemistry	
	Laboratory	6
PCB 4233	Immunology	3

Summer Sem	ester (15 semester hou	rs
MLS 3430	Medical Parasitology	2
MLS 3430L	Medical Parasitology	
	Lab	1
MLS 4306	Clinical Hematology	4
MLS 4306L	Clinical Hematology	
	Laboratory	(
MLS 4755C	Laboratory Statistics	
	and Quality Control	2

Senior Year

Fall Semester	(15 semester hours)
MLS 4032	Orientation to Clinical
	Rotation
MLS 4334	Clinical Coagulation
MLS 4334L	Clinical Coagulation
	Laboratory
MLS 4535	Immunohematology

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MLS 4535L	Immunohematology	
	Laboratory	3
MLS 4630	Advanced Clinical	
	Chemistry	3
MLS 4705	Laboratory	
	Management	1
MLS 4934	Senior Seminar	1
Spring Semester (12 semester hours)		
MLS 4820L	Clinical	•
	Practice/Chemistry	3
MLS 4821L	Clinical	
	Practice/Microbiology	3
MLS 4822L	Clinical	
	Practice/Hematology	3
MLS 4823L	Clinical Practice/	
	Blood Bank	

and Immunology

3

Minor in Medical Laboratory Sciences

The minor program is aimed at biological and chemical sciences majors who wish to develop expertise in a related area of medical laboratory sciences, and who may wish to seek hospital or clinical diagnostics and industrial employment after graduation. The minor requires 18-26 semester hours in MLS depending on specialization area. Contact the department for details.

Graduate Program

Admission to the Master of Science degree program in Medical Laboratory Sciences represents a judgement as to the probability of the student's success in graduate work. This judgement is usually based on a variety of factors including the student's undergraduate academic record, specific admission test scores, letters of recommendation, and letter of intent. To be admitted, a student must meet the following minimum requirements:

1. Satisfactorily meet the University's general requirements for admission. (Consult the General Information section for details).

2. Hold a bachelor's degree, or equivalent, in medical technology or related scientific discipline from an accredited institution. Students entering the program should have completed a minimum of two years of chemistry, one year of mathematics including statistics, two years of biology including immunology and biochemistry. A minimum of 12 semester hours of undergraduate clinical coursework in one of the specialty areas is also required for individuals who do not possess a bachelor's degree in medical technology. An applicant lacking in course background may be admitted with deficiencies on condition that these deficiencies be made up within one year of the date of admission. Credits earned in making up these deficiencies will not count toward the graduate degree.

Have a minimum cumulative GPA of 3.0 during the last two years of the undergraduate program or a minimum combined score of 1000 on the quantitative and verbal portions of the Graduate Record Examination (GRE) (or a minimum combined score of 1500 on the three-part GRE).

4. Submit at least two letters of recommendation from academic professors, supervisors/employers and /or professional associates who are in a position to comment on the applicant's potential for graduate work.

5. Submit an autobiographical statement or letter of intent (not to exceed 1000 words) which includes educational goals and career projections. Applicants may also include copies of previous written scientific work.

6. Students whose native language is other than English must demonstrate an adequate level of proficiency in English as judged by a minimum score of 550 on the Test of English as a Foreign Language (TOEFL). Foreign students who have not met this requirement may be conditionally admitted and allowed to enroll in an intensive English language program prior to beginning coursework in medical laboratory sciences. Satisfactory English proficiency must be demonstrated within the first year of

7. Approval from the Departmental Graduate Committee.

Degree Requirements

The Master of Science in Medical Laboratory Sciences consists of a minimum of 37 credits, including a thesis based upon the student's original research. A maximum of six credits of graduate coursework may be transferred from other institutions subject to approval of the Graduate Committee. It is expected that a full-time student taking nine credits per semester should be able to complete the program in two vears.

Core Courses	12 credits
Specialty Courses	9 credits
Electives	6 credits
Graduate Seminars	4 credits
Thesis	6 credits

Core Courses

MLS 5175	Advanced Clinical	•
MLS 5515	Pathology Advanced Diagnostic	3
MLS 5615	Immunology	3
MLS 3613	Research Instrumentation and Techniques in Medical	
	Laboratory Sciences	3

MLS 5785 Research Methods in Medical Laboratory Sciences

3

Specialty Courses: Clinical Chemistry

MLS 6645	Advanced Clinical		
	Analytical Systems	3	
MLS 6665	Clinical Endocrinology	3	
MLS 5675	Clinical Protein		
	Chemistry	3	
MLS 5685	Therapeutic Drug		
	Monitoring and		
	CLinical Toxicology	٠3	

Specialty Courses: Hematology

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MLS 5328	Diagnostic	
	Hematological Cytology	
	and Cytochemistry 3	
MLS 6329	Hematological	
	Oncology 3	
MLS 5345	Advanced Hematology/	
	Hemostasis 3	

Specialty Courses: **Immunohematology**

MLS 6575	Advanced Blood	
	Banking	3
MLS 6595	Advanced	
	Immunohematology	3
MLS 5590	Human Blood	
	Group Systems	3
MLS 6944, 69	45, 6946 Advanced	
	Blood Banking	
	Practicum I, II, III	3
MLS 5585	Human	
	Histocompatibility	
	Antigens	3

Specialty Courses: Clinical Immunology

MLS 6180	Immunopathology
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Specialty Courses:

Clinical Micro	biology	
MLS 6425	Advanced Clinical	
	Mycology	3
MLS 6468	Molecular Mechanisms	
	of Infectious Diseases	3
MLS 5475	Medical Virology	3

Electives

In consultation with the advisor, the student may select a maximum of six credits outside the Department of Medical Laboratory Sciences which are not limited to but may include courses in biological sciences, chemistry, health care administration, educational methodology, computer sciences, and business administration

Course Descriptions

Definition of Prefixes

MLS - Medical Laboratory Science

MLS 3038 Basic Techniques in Medical Laboratory Sciences (3). Lecture and laboratory introducing the profession of medical laboratory science and basic laboratory skills including venipuncture, laboratory calculations, microscopy and medical technology.

MLS 3220 Clinical Microacopy (1). Introduction to the structure and physiology of the kidney, CSF and other biological fluids. The clinical significance of various findings in the urine CSF, and other biological fluids are discussed. Prerequisite: MLS 4306 or permission of the instructor. Corequisite: MLS 3220L.

MLS 3220L Clinical Microscopy Laboratory (2). Laboratory to accompany MLS 3220, dealing with routine procedures for unnalysis, microscopic examination of unne, semen, CSF, and other biological fluids. Corequisite: MLS 3220.

MLS 3240L Medical Mycology Laboratory (1). Laboratory to accompany MLS 5425.

MLS 3430 Medical Parasitology (2). Classification, morphology, and life cycles of medically significant parasites. Emphasis is on microscopic identification, specimen processing/ examination, and infection control. Prerequisite: General Biology with Laboratory.

MLS 3430L Medical Parasitology Laboratory (1), Laboratory to accompany MLS 3430.

MLS 3605 Clinical Instrumentation (3). Fundamentals of clinical laboratory instrumentation including basics of electricity and electronics, preventive maintenance, and quality control procedures will be emphasized. Prerequisites: CHM 3120 and CHM 3120L or equivalent.

MLS 3605L Clinical Instrumentation (1). Laboratory to accompany MLS 3605 Introduction to the operation, applications, and preventive maintenance of clinical laboratory instruments. Quality control procedures. Corequisite: MLS 3605.

MLS 3700 Menagement Procedures for Laboratory Employees (1) Job descriptions, salary schedules, equipment and reagent purchasing, quality assurance programs, work-load recording methods Individualized projects adapted to meet the needs of facility where student is employed Prerequisite: One year of clinical laboratory experience

MLS 3750 Laboratory Quality Control, Safety, and Instrument Maintenance (3). Course designed for the working technologist who wishes to protect himself, his co-workers, and others in his environment from the hazards inherent in laboratory operations, and who wishes to present better evidence of compliance with the various inspection and accreditation organizations which now inspect laboratories. Prerequisite: One year of clinical laboratory experience.

MLS 4032C Orientation to Clinical Rotation (1). Introduction to hospital environment and patient care. Medical ethics. Clinical facilities tour. Seniors only.

MLS 4150 Selected Topics in Clinical Correlations (1). Current topics in Clinical Correlations of particular significance. Review of literature and discussion of the selected topics. Perrequisite: Permission of the instructor.

MLS 4190 Diagnostic Histology (1).
Control slides; special stains;
preparation of tissues for EM;
identification of significant tissue
features for preparation of surgical
slides. For experienced
histotechnologists.

MLS 4306 Clinical Hematology (4). A basic course in the origin of erythrocytes and leukocytes, their morphology and function. Mechanisms, manifestations, and abnormal laboratory findings of hematologic diseasea and unnalysis. Prerequisite: BCH 3033 or permission of instructor.

MLS 4306L Clinical Hematology Laboratory (3). Laboratory to accompany MLS 4306, dealing with manual and automated procedures for determining complete blood and platelet counts. Urinalysis and clinical microscopy.

MLS 4320C Advanced Hematology (2). Study of abnormal blood prosent in peripheral smear and bone marrow Special tests performed in hematology and coagulation. Hematology automation, Lectures and laboratory

MLS 4325 Selected Topics in Hematology (1). Current topics in Hematology of clinical significance Review of literature and discussion of the selected topics. Prerequisite Permission of the instructor.

MLS 4334 Clinical Coagulation (1) A basic course in the study of study coagulation factors, platelets, the fibrinolytic system, platelet aggregation. Prerequisite: MLS 4306 or permission of instructor.

MLS 4334L Clinical Coagulation Laboratory (1). Laboratory to in a accompany MLS 4334, dealing with manual and automated procedures for determining coagulation factor deficiencies and platelet function.

MLS 4405 Clinical Microbiology (4). Methods for the isolation and identification of clinically significant organisms. Epidemiology, symptoms, diagnosis and treatment of infectious diseases. Mechanisms of microbial infection. Host immunity. Prerequisite: MCB 3023 and MCB 3023L or equivalent. Corequisite: BCH 3033.

MLS 4405L Clinical Microbiology Laboratory (3). Laboratory to accompany MLS 4405. Isolation and identification of normal and pathogenic flora from genuine and simulated clinical specimens. Identification of clinically significant fungi.

MLS 4460C Advanced Microblology (3). Lectures and laboratory. Identification of rare pathogens including Chlamydia and Rickettsia. Virology and tissue culture techniques. Mode of action of bacterial resistance to antibiotics. Prerequisites: MLS 4405 and BCH 3033 or permission of instructor.

MLS 4465 Selected Topics In Microbiology (3) Current topics in Microbiology of clinical significance. Review of literature and discussion of the selected lopics. Prerequisite. Permission of the instructor.

MLS 4505 Clinical Immunology (1). Study of immunological procedures employed by the clinical laboratory for the diagnosis of diseases such as rhoumatoid arthritis, infectious mononucleosis, syphilis. Pre or Corequisite: PCB 3233

MLS 4505L Clinical Immunology Laboratory (2). Diagnostic procedures and techniques performed in a clinical immunology laboratory such as precipitation, agglutination, syphilis serology and other immunoassays Laboratory to accompany MLS 4505

MLS 4535 Immunohematology (4). Fundamentals of blood banking including blood group systems, pretranslusion testing methods, hemolytic disease of the newborn, HLA, blood component therapy, and adverse effects of translusion. Percequistes PCB 3233, MLS 4505, and MLS 4505L

MLS 4535L Immunohematology Laboratory (3). Laboratory to accompany MLS 4535.

MLS 4550C Advanced

Immunohematology (1). In depth study of Transfusion Therapy, the use and preparation of blood components, and special problems in blood banking. Lectures and laboratory Prerequisite: MLS 4535.

MLS 4555 Selected Topics in Immunohematology (3). Current topics in Blood Banking of clinical significance. Review of literature and discussion of the selected topics. Perequisite: Permission of the instructor.

MLS 4625 Clinical Chemistry Methods (4). Laboratory of procedures for analysis of carbohydrates, proteins, lipids, enzymes, electrolytes and drugs. Interpretation of biochemical tests used in the diagnosis and treatment of disease. Renal, liver, and cardiac function profiles. Prerequisites: MLS 3605, MLS 3605L, and BCH 3033.

MLS 4625L Clinical Chemistry Laboratory (6). Laboratory to accompany MLS 4625.

MLS 4630 Advanced Chemistry (3). Analysis of thyroid hormones, estrogens, adrenal hormones and metabolites, immunoassay, radioisotope measurement, amniotic fluid analysis, toxicology, multichannel analyzers, and chromatographic methods. Prerequisite: MLS 4625.

MLS 4630L Advanced Chemistry Laboratory (2). Elective topics in laboratory to accompany MLS 4630.

MLS 4635 Selected Topics in Clinical Chemistry (3). Current topics in Clinical Chemistry of particular clinical significance. Review of literature and discussion of the selected topics. Perrerequisite: Permission of the instructor.

MLS 4705 Laboratory Management (1). Personnel handling, laboratory records, equipment and reagent purchasing, laboratory computerization, quality assurance programs, workload recording programs, scheduling and methods of laboratory self-evaluation. Seniors only

MLS 4755C Laboratory Statistics and Quality Control (2). Lecture topics to be covered include basic laboratory statistics, linear regression and correlation analysis, quality control charting techniques, new method evaluation, problem solving using computer programs. Seniors only.

MLS 4820L Clinical Practice Chemistry (3). Practical experience in a hospital chemistry laboratory. All MLS courses must be completed before students will be permitted to register for clinical practice.

MLS 4821L Clinical Practice Microbiology (3). Practical experience in a hospital microbiology laboratory.

MLS 4822L Clinical Practice Hematology (3). Practical experience in a hospital hematology laboratory.

MLS 4823L Clinical Practice Blood Bank and Immunology (3). Practical experience in a hospital blood bank and immunology laboratory

MLS 4905 Independent Study (1-3). Special work, directed readings, lecture and/or laboratory assignment, determined by advisor in accord with student's interests. Prerequisite: Permission of advisor.

MLS 4910 Directed Independent Research (1-6). Investigation of a problem in hematology, clinical microbiology, immunohematology and clinical chemistry requiring independent research directed and supervised by the instructor. Prerequisite: Permission of instructor.

MLS 4934, Senior Seminar (1). Preparation and presentation of literature review and individualized projects. Instructional methods.

MLS 5175 Advanced Clinical Pathology (3). Advanced study of pathological conditions affecting the major organ systems with emphasis on clinical diagnosis using laboratory methods. Prerequisite: Graduate standing or permission of instructor.

MLS 5328 Diagnostic Hematological Cytology/Cytochemistry (3). Morphological, cytochemical, cytogenetic and immunological techniques for precise and accurate blood cell identification that provide invaluable information for diagnosis, treatment and prognosis. Prerequisite: Graduate standing or permission of instructor.

MLS 5345 Advanced Hematology/ Hemostasis (3). An advanced course dealing with a number of selected topics of current interest in clinical hematology/hemostasis. Emphasis will be placed on erythrocyte disorders and blood coagulation. Prerequisite: Graduate standing or permission of instructor. MLS 5425 Medical Mycology (3). Study of the essential procedures and criteria in the identification of pathogenic fungi. Recognition of fungal contaminants commonly encountered in clinical specimens. Actinomycetes. Antimycotic agents. Mycoserology. Stains, reagents, and media. Prerequisite: Graduate standing or permission of instructor.

MLS 5515 Advanced Diagnostic Immunology (3). A course describing the principles, performance, quality control and applications of immunological methods used in clinical laboratories and research. Prerequisite: Graduate standing or permission of instructor.

MLS 5585 Human Histocompatibility Antigens (3). A comprehensive study of the serology, clinical relevance, immunology and genetics of the human histocompatibility antigens. Prerequisite: Graduate standing or permission of instructor.

MLS 5615 Research Instrumentation and Techniques (3). This course is designed to introduce the beginning graduate student to research instrumentation and techniques in the specialized areas of the medical laboratory sciences. Prerequisite: Graduate standing or permission of instructor.

MLS 5675 Clinical Protein Chemistry (3). Lectures dealing with isolation and identification of clinically significant proteins and enzymes. Pathological conditions and interpretation of laboratory data. Prerequisite: Graduate standing or permission of instructor.

MLS 5685 Therapeutic Drug Monitoring and Clinical Toxicology (3). Lectures dealing with pharmacokinetic and pharmacodynamic principles, methods of analysis, medicolegal aspects of drug testing, quality assurance. Prerequisite: Graduate standing or permission of instructor.

MLS 5785 Research Methods In Medical Laboratory Sciences (3). Introduction to clinical and industrial research methods/experimental designs. Analysis of scientific literature. Review of statistical analysis of data. Prerequisite: Graduate standing or permission of instructor.

MLS 5690 Human Blood Group Systems (3). An in-depth study of serology, clinical relevance, immunology, genetics and the biochemistry of the human red cell, white cell and platelet antigens and antibodies. Prerequisite: Graduate standing or permission of instructor. MLS 6180 immunopathology (3). The student will study the pathology of immunological processes occurring naturally and /or under disease conditions. Prerequisite: Graduate standing or permission of instructor.

MLS 6329 Hematology Oncology (3). A detailed study of MLS hematological neoplasms, in which the etiology, pathophysiology, clinical and laboratory diagnosis of leukemias, lymphomas and other malignant diseases will be considered. Prerequisita: Graduate standing or permission of instructor.

MLS 6425 Advanced Clinical Mycology (3). Study of fungi which cause disease in man and animals. Application of genetic, biochemical and ultrastructural procedures in the identification of fungi including the use of monodonal antibodies. Prerequisite: Graduate standing or permission of instructor.

MLS 6468 Molecular Mechanisms of Infectious Disease (3). Study of molecular mechanisms of microbial pathogenicity as it relates to human infections. Examination of the processes by which infection leads to disease. Disease prevention, Prerequisite: Graduate standing or permission of instructor

MLS 5475 Medical Virology (3). The nature of viruses and viral disease. Types of human viral infections, their detection and prevention. Current diagnostic procedures. Prerequisite: Graduate standing or permission of instructor

MLS 6575 Advanced Blood Banking (3). A comprehensive study of the techniques and methods used to acquire, prepare, store, test and transfuse blood and its components. Prerequisite: Graduate standing or permission of instructor

MLS 6595 Advanced Immunohematology (3) A comprehensive study of antigenantibody reactions and analogous phenomena as they relate to the pathogenesis and clinical manifestations of blood disorders. Prerequisite: Graduate standing or permission of instructor

MLS 6645 Advanced Clinical Analytical Systems (3) Current analytical concepts and analytical systems in clinical chemistry Solid phase technology lon-specific electrodes. Centrilugal analyzers Fluorescence polarization, Robotics. Prerequisite: Graduate standing or permission of instructor.

MLS 6665 Clinical Endocrinology (3). Lectures dealing with the anatomy. physiology and biochemistry of endocrine diseases. Laboratory testing procedures and approaches, clinical significance and interpretation of laboratory data. Prerequisite: Graduate standing or permission of instructor.

MLS 6905 Independent Study (1-6). Indepth study of a special topic requiring assigned readings, optional laboratory assignments, seminar participation, and final report. Prerequisite: Permission of instructor.

MLS 6910L Directed Independent Research (1-6), Investigation of a problem in the area of medical laboratory sciences requiring independent research at the graduate level. Supervision by graduate faculty. Prerequisite: Permission of advisor/instructor.

MLS 6944 Advanced Blood Banking Practicum I (3). A laboratory course providing in-depth practical experience in the various aspects of Blood Banking in a community blood center and hospital transfusion service. Prerequisite: Graduate standing or permission of instructor.

MLS 6945 Advanced Blood Banking Practicum II (3). A laboratory course providing in-depth practical experience in the various aspects of Blood Banking in a community blood center and hospital transfusion service. Prerequisite: Graduate standing or permission of instructor

MLS 6946 Advanced Blood Banking Practicum III (3). A laboratory providing in-depth practical experience in the various aspects of Blood Banking in a community blood center and hospital transfusion service. Prerequisite: Graduate standing or permission of instructor.

MLS 6938 Graduate Seminar (1), Oral presentation of literature review or research. Prerequisite: Graduate standing or permission of instructor

MLS 6939 Advanced Topics in Medical Laboratory Sciences (3) Current topics in medical laboratory sciences not otherwise covered in the curriculum Review of literature and discussion of the selected topics. May be repeated for credit with different subject content. Prerequisite. Graduate standing or permission of professor

MLS 6971 Master's Thesis (1-6). Supervised research on an original research project submitted in partial fulfillment of Master's degree requirement. Minimum requirement of six credit hours. Prerequisite: Permission of major instructor.

Medical Record Administration

Elizabeth M. Johnson, RRA, Acting Director and Assistant Professor

The major in Medical Record Administration prepares the student for the variety of responsibilities and functions involved in the management of a Medical Record Department, Medical Record Administrators design and supervise systems relating to the collection, analysis, retention, retrieval and evaluation of medical records. The priorities of the position include maintaining complete, accurate and timely medical records, assisting the medical staff, and developing and implementing policies and procedures which adhere to the ethical, financial. and legal requirements and meet the accreditation standards established for the health care facility.

The Medical Record Administration Program is accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association in collaboration with the Council on Education of the American Medical Record Association Graduates are eligible to take the National Registration Examination and become a credentialed Registered Record Administrator (R.R.A.) upon the successful completion of this exam.

Degree: Bachelor of Science

Prerequisite Courses: Anatomy and Physiology including laboratory; Statistics: Microbiology or Epidemiology.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours with a minimum 2 0 cumultative GPA, and must be otherwise acceptable into the program.

Upper Division Program (60 semester hours)

Required Co hours)	urses1: (60 semester	
HSC 3531	Medical Terminology	3
HSC 3642	Legal Aspects of	
	Medical Records	3
MRE 3110	Medical Record	
	Administration I	3
MRE 3202	Basic Coding	
	Procedures	3
MRE 3205	Medical Record	

Administration II

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MRE 3312	Medical Record	
	Management I	3
MRE 3401	Fundamentals of	
	Medical Science I	3
MRE 3402	Fundamentals of	
	Medical Science II	3
MRE 3800	Directed Practice I	1
MRE 3810	Directed Practice II	1
MRE 4204	Advanced Coding	3
MRE 4211	Medical Record	
	Information Systems	3
MRE 4304	Problems in Medical	
	Record Administration	3
MRE 4344	Medical Record	
	Management II	4
MRE 4400	Health Care Records:	
	Multi-Institutional	3
MRE 4415	Medical Record	
	Administration III	3
MRE 4831	Directed Practice III	1
MRE 4835	Internship in Medical	
	Record Management	4
	•	

Support Courses1:

HSA 4170 Health Care Financial and Accounting Management 3 **HSA 4184** Human Resources 'Management and Supervision HSA 4192 Health Management and Systems Engineering

1Must earn a minimum grade of "C" (2.0) in each course. Grade of "C-" or below must be repeated.

Course Descriptions

Definition of Prefix

MRF-Medical Record Administration: HSA - Health Services Administration: HSC- Health Science Concentration.

HSC 3531 Medical Terminology (3). Provides the student with basic medical language skills, including pronunciation, spelling, and definitions necessary for communication in the medical world.

HSC 3642 Legal Aspects of Medical Record (3). Consideration of Medical Record as legal document to include general introduction to law, release of information, and legal actions.

MRE 3110 Medical Record Administration I (3), introduces the student to the historical development of medical record science; role and function of the medical record administrator: professional ethics; flow of the medical record from patient admission to completion of the record after discharge; numbering and filing systems. The medical record: content and format. value and standards for health care facilities.

MRE 3202 Basic Coding Procedures (3). Concepts and principles of

nomenclatures and classification systems used to record and compare health data. Development of ICD-9-CM coding skills and applications for research. Prerequisites: Anatomy and physiology with laboratory and medical terminology.

MRF 3205 Medical Record

Administration II (4). In-depth study of hospital statistics covering sources, definitions, collection and reporting of data by Medical Record Department. Principles of research defined. Microcomputer Lab included.

MRE 3312 Medical Record

Management I (3). General principles of management of a medical record system in any type of health care facility, including hospitals, intermediate and long term care lacilities, clinics, HMO's etc. The basic concepts of management as related to the health care industry are addressed.

MRE 3401 Fundamentals of Medical Science I (3), A systematic review of organ systems, arranged by medical specialties. Typical chart data will be included, with representative information characteristic of history and physical examination, laboratory, x-ray data, and nursing notes. Specialties covered are internal medicine, pediatrics, obstetrics and gynecology. Prerequisites: Anatomy and Physiology and Medical Terminology.

MRE 3402 Fundamentals of Medical Science II (3), A systematic review of organ systems, arranged by medical specialties. Typical chart data will be included, with representative information characteristic of history and physical examination, laboratory, x-ray data, and nursing notes. Specialties covered are general surgery, neurosurgery, neurology, and orthopedics. Prerequisites: Anatomy and Physiology and Medical Terminology.

MRE 3800 Directed Practice I (1). Orientation of the student to the hospital medical record department and adjunct diagnostic or therapeutic units: including the outpatient department, emergency room, admitting office, x-ray, pharmacy, physical therapy, laboratory, and pathology department.

MRE 3810 Directed Practice II (1). Orientation of the student to medical record department functions. Rotation of the student through technical functions of the department, following the flow of the patient's record after discharge. Includes the discharge procedure;

analysis, coding and indexing systems; statistical reporting; correspondence; control of the incomplete medical record; and processing of the completed record.

MRE 3949 Cooperative Education in Medical Record Administration (3). Supervised work in Medical Records taking part in the University Cooperative Education Program. Prerequisite: Admission to Co-op Education.

MRE 4204 Advanced Coding Procedures (3). Introduction to coding as it relates to DRG system. Record analysis and data quality addressed. CPT, DSM III and current coding issues and regulations presented and discussed. Prerequisite: MRE 3202.

MRE 4211 Medical Record Information Systems (3). Development of medical record information systems and applications for evaluation and management of a medical record department. Emphasis is on computerization. Prerequisite: MRE

MRE 4304 Problems in Medical Record Administration (3), Through illustrative case reports, group discussions, role playing, oral reports, lectures, buzz sessions, and review of the literature; students explore effective methods for identifying and arriving at satisfactory solutions to specific types of problems they may expect to encounter in the administration of medical record services.

MRE 4344 Medical Record Management II (4). Application of management principles to M.R. System, including: development of manuals, job descriptions, interviewing and evaluation techniques, forms design, environmental planning etc. External activities assigned. Prerequisites: MRE 3312 or HSA 3180.

MRE 4400 Health Care Records: Multi-Institutional (3). Standards and procedures for long-term, ambulatory care, home health, rehabilitation, psychiatric, dental, Hospice and other health care services are investigated and compared.

MRE 4415 Medical Record Administration III (3). Quality assessment for health care institutions including risk management and utilization review, JCAHO, AOA, PRO, Medicare and Medicaid requirements emphasized.

MRE 4831 Directed Practice III (1). Experience in quality assessment, risk management, and utilization review

areas. Clinical experience in acute care and non-acute care facilities.

MRE 4835 Internship in Medical Record Management (4). Management experience in a medical record department under the supervision of a Registered Record Administrator. Emphasis on administrative and medical staff relationships.

MRE 4905 Directed Independent Study (1-3). Individual conferences, assigned readings, and reports on investigations related to the Medical Record profession.

MRE 4932 Special Topics (3). Designed to address topics not otherwise offered in the curriculum but specific to Medical Record Administration. Topics to be announced yearly.

MRE 4949 Cooperative Education In Medical Record Administration (3). Supervised work in Medical Records taking part in the University Cooperative Education Program. Prerequisite: MRE 3949.

Occupational Therapy

Reba L. Anderson, Associate Professor and Chairperson Susanne D'Agail, Assistant Professor Anne Dickerson, Assistant Professor Susan Kaplan, Associate Professor and Graduate Coordinator

and Graduate Coordinator
Suze Dudley, Assistant Professor
Gell Maguire, Associate Professor
Petricle Michael, Assistant Professor

Occupational therapy is a health profession concerned with promoting the quality of life of individuals. Therapeutic techniques are directed toward restoration, reinforcement and enhancement of participation in life. Occupational therapy may be indicated for persons whose life has been interrupted by disease or injury, or those who suffer from developmental dolays or problems associated with aging

The occupational therapist assesses the client's abilities to carry out tasks and activities necessary for productive living. Working collaboratively with the client and considering his personal goals, lifestyle and environment, the therapist develops an intervention program designed to help restore the greatest possible functional capacity. During the treatment or rehabilitation process, the client actively engages in a directed program of

purposeful, meaningful activities designed to increase his or her level of functioning. The occupational therapist works collaboratively with the client, other health professionals on the health care team, and community agency personnel. Occupational therapists serve a wide variety of individuals in all age ranges and work in settings such as community agencies, sheltered workshops, hospitals, schools, extended care facilities, and rehabilitation centers. There is an increasing demand for occupational therapists and excellent opportunities exist for career advancement.

Qualities that are necessary to be a successful therapist include the ability to work with others, look at the totality of human performance, think creatively, problem solve, and direct the actions of others.

Undergraduate Program

Degree: Bachelor of Science

In order to be admitted to the program in occupational therapy, applicants must meet the requirements for admission to the University, have a cumulative GPA of 2.5 or higher, and have completed required prerequisites and 60 semester hours of acceptable academic credit. Applicants must apply directly to the Office of Admissions. Enrollment is limited and one class is selected each academic year to begin Fall semester. The program is accredited by the American Occupational Therapy Association/American Medical

Lower Division Preparation

Required Courses: Biological and physical sciences - six semester hours to include three semester hours of biology with lab, and three semester hours of physics, (recommended course: anatomy and physiology). Social Behavioral Sciences -twelve semester hours to include: Psychology - three semester hours (For 1991 admission, a course in abnormal psychology is required.) Theories of Personality three semester hours. Human Growth and Development (infancy through adolescence) - three semester hours Sociology/Anthropology -three semester hours Statistics - three semester hours. Introduction to Computer Programming (BASIC is highly recommended) - three semester hours.

To be admitted into the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program

Upper Division Program Required Courses

Junior Year

Fall Semester	(15 semester hours)	
OTH 3004	Professional	
	Development	3
OTH 3012L	Therapeutic	
	Communication	2
OTH 3160	Adaptive Living Skills	2
OTH 3160L	Adaptive Living Skills	
	Lab	1
PCB 3702	Intermediate Human	
	Physiology	3
ZOO 3731	Human Anatomy	3
ZOO 3731L	Human Anatomy Lab	1
Spring Semes	ster (17 semester hours)	
OTH 3327	Issues in Psychosocial	
	Dysfunction for	
	Occupational	
	Theraniete	2

	Dysfunction for	
	Occupational	
	Therapists	3
OTH 3341	Treatment Techniques	
	in Psychiatric OT Lab	2
OTH 3341L	Treatment Techniques	
	in Psychiatric OT	1
OTH 3413	Applied Kinesiology	3
OTH 3413L	Applied Kinesiology	
	Laboratory	1
OTH 3520	Developmental	

Theory I Lab ZOO 4743 Neuroscience				
Summer Sen OTH 3815	nester (5 semester hour Field Work Experience			

Theory I

Dovolonmental

OTH 35201

OTH 3007

2

Senior Year

Medical Terminology

Fall Semester (15 semester hours) OTH 4210 Developmental Theory II OTH 4315 Theory and Dysfunction in Psychiatric OT Pathology and Medical-OTH 4411 Surgical Disorders 3 Biomechanics in OTH 4421 Rehabilitation 2 OTH 4421L Biomechanic in Rehabilitation Lab 1 OTH 4422 Evaluation and Treatment of Central Nervous System Dysfunction 3 OTH 4422L Evaluation and Treatment of Central Nervous System Dyslunction Lab

Spring Semes	ter (16 semester hours)	
OTH 4112	Therapeutic Mudia	1
OTH 4112L	Therapeutic Media	
	Lab	2
OTH 4170L	Therapeutic Techniques	
	in Physical Disabilities	1

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OTH 4325	Evaluation and	
	Treatment in	
	Psychiatric OT	2
OTH 4325L	Evaluation and	
	Treatment in	
	Psychiatric OT Lab	1
OTH 4714	Treatment Planning and	b
	Patient Management	3
OTH 4761	Professional Issues in	
	Occupational Therapy	3
Elective In Clir	nical Specialization	3

Summer Semester (12 semester hours) OTH 4850

OTH 4851 Field Work Experience 12

Fall Semester OTH 4850

or

or

OTH 4851 Field Work Experience 12

Graduate Program

Degree: Master of Science in Occupational Therapy

The curriculum is composed of three main components: a core of occupational therapy courses to increase understanding of the theoretical bases and current issues of occupational therapy practice; a research component to develop critical problem solving, research, and writing skills; and a clinical specialty component that students design with approval of faculty. In the clinical specialty area, students have the opportunity to take four elective courses and develop a clinical project and their thesis in their area of interest in addition. The course of study is designed for advanced study for certified occupational therapists and permits part-time enrollment.

Admission Requirements:

To be admitted to the Master's degree program, students must:

- Hold a bachelor's degree or equivalent from an accredited institution.
- Have completed an accredited curriculum in occupational therapy.
- 3. Have a minimum of a 3.0 GPA average based on a 4.0 scale (upper division) or a combined score of 1000 (verbal and quantitative parts) on the Graduate Record Examination (GRE).
 - 4. Have a basic statistics course.
- Provide three letters of reference, a curriculum vitae/resume, a summary statement of professional and educational goals and assessment of current professional activities.
- Receive approval from the departmental graduate admissions committee.
- 7. International students are accepted subject to space and fiscal

limitations. Students must have a Bachelor's degree or equivalent in occupational therapy from an institution recognized in their own country as preparing students for graduate level study; academic eligibility for further study in their own country; demonstrate proficiency in the English language by a minimum score of 550 on the Test of English as a Foreign Language (TOEFL).

Degree Regulrements:

The Master of Science in Occupational Therapy consists of 36 credits including a thesis. Fifteen credits of core courses must be taken in the department plus a minimum of six credit hours of thesis.

A maximum of six credits of graduate coursework may be transferred from other institutions, subject to the approval of the departmental graduate committee.

Required Courses: (36 semester hours)

Occupational Therapy Core:

OTH 6009 Current Issues and Theories of Occupational Therapy 3
OTH 6265 Measurement and Assessment in Occupational Therapy 3
OTH 6215 Advanced Occupational Therapy Intervention

Strategies 3
OTH 6948 Continuing Clinical
Competence for
Occupational
Therapists 3

Research Component

 STA 6167
 Statistical Methods in Research II
 3

 OTH 5760
 Current Research in Occupational Therapy
 3

 OTH 6970
 Master's Thesis
 6

Clinical Specialty Component Combination of occupational therapy and university electives in an identified area of clinical interest approved by the faculty 12

Course Descriptions Definition of Prefixes

OTH -Occupational Therapy.

OTH 3004 Professional Development 3). History and theory of the discipline of occupational therapy, includes an introduction to clinical and community practice environments. Prerequisite: OTH 3004.

OTH 3007 Medical Terminology (1). A self-instructional program of medical terminology. OTH 3008C Fundamentals of Human Performance (2). An introduction to the human body, its structure and function with an emphasis on visual assessment and palpation to evaluate physical dysfunction.

OTH 3012L Therapeutic

Communication (2). Major focus of this course is on several modes of facilitating communication and opportunities for self-knowledge. Interpersonal Process Recall format is followed.

OTH 3160 Adaptive Living Skills (2). Evaluation and adaptation of environments within which typical occupational therapy clients interact; specific limiting factors of general disabilities; variety of techniques and aides which compensate or adapt for less.

OTH 3160L Adaptive Living Skills Lab (1). Laboratory to accompany OTH 3160. Corequisite: OTH 3160.

OTH 3327 Issues In Psychosocial Dysfunction for Occupational Therapists (3). The analysis and identification of patterns of behavior and functional performance pertinent to occupational therapy practice in psychiatry.

OTH 3328 Foundations of Psychiatric Occupational Therapy Theory (2). An overview of past and current theories influencing the practice of occupational therapy in psychiatry.

OTH 3341 Treatment Techniques in Psychiatric Occupational Therapy (1). The study of the use of purposeful activity for individual and group treatment in psychiatric occupational therapy. Prerequisite: Theories of Personality. Corequisite: OTH 3106L

OTH 3341L Treatment Techniquea in Psychiatric Occupational Therapy Lab (2). The application of the modalities of minor crafts and group processes in psychiatric occupational therapy. Prerequisite: Theories of Personality. Corequisite: OTH 3106.

OTH 3413 Applied Kinesiology (3) OTH 3413L Applied Kinesiology Lab

(1). A course providing learning experiences to develop skills in palpation, goniometry, manual muscle testing, and motion analysis of normal subjects. Prerequisites: ZOO 3731, ZOO 3731L or equivalents.

OTH 3520 Developmental Theory I (2). Occupational therapy evaluation, treatment and management of developmental disabilities from birth

through adolescence. Prerequisite: DEP 3000 or equivalent.

OTH 3520L Developmental Theory I Lab (1). Laboratory to accompany OTH 3520. Prerequisites: DEP 3000, OTH 3004, PCB 3702, 200 3731, 200 3731L or equivalents. Corequisite: OTH 3520.

OTH 3815 Field Work Experience Level I (3). Pre-clinical experience in an approved training center.

OTH 4109 Technological Applications in Occupational Therapy (1). Overview of technological applications in clinical practice with emphasis on adaptations for the physically disabled student. Prerequisite: CDA 2310 or equivalent.

OTH 4109L Technological Applications in Occupational Therapy (1). Laboratory experience with various technological applications used in occupational therapy practice.

Prerequisite: CDA 2310 or equivalent.

OTH 4112 Therapeutic Media (1). The study of the use of age appropriate activities as therapeutic modalities. Prerequisites: OTH 3160, OTH 4421, OTH 4422, or equivalents. Corequisite: OTH 4112L.

OTH 4112L Therapeutic Media (2). Laboratory to accompany OTH 4112.

OTH 4170L Therapeutic Techniques in Physical Disabilities (1). Upper extremity prosthetic and orthotic devices are investigated. Presentation includes the biomechanics, anatomy, materials, and appliances necessary for fabrication, pre-and post-prosthetic and orthotic evaluation, checkout procedures and training methods. Prerequisites: Biology with Lab, Anatomy, OTH 4222, OTH 4422L or equivalents.

OTH 4210 Developmental Theory II (3). The application of developmental theory to the occupational therapists' evaluation, treatment and management of adults and the aged.

OTH 4315 Theory and Dysfunction in Psychlatric Occupational Therapy (2)-Presentation of the major psychiatric occupational therapy theorists as they relate to developmental disorders, as well as disorders related adjustment, role dysfunction and human performance Prerequisites: Abnormal Psychology, Theories of Personality, or equivalents.

OTH 4325 Evaluation and Treatment in Psychiatric Occupational Therapy (3). An in-depth study of the evaluations and treatment techniques currently utilized in psychiatric occupational therapy

Prerequisites: OTH 4315, OTH 3106, OTH 3106L, or equivalents. Corequisite: OTH 4325L.

OTH 4325L Evaluation and Treatment In Psychiatric Occupational Therapy Lab (2). Laboratory to accompany OTH 4325. Prerequisites: OTH 4315, OTH 3106L or equivalents. Corequisite: OTH 4325.

OTH 4411 Pathology and Medical-Surgical Disorders (3). Briel review of organ systems and primary diseases that affect each organ, with specific emphasis on the disabilities that would result from such diseases. Prerequisites: PCB 3702, ZOO 3731, ZOO 3731L, ZOO 4743 or equivalents.

OTH 4421C Blomechanics in Rehabilitation (2). The analysis and application of biological and physical principles to the evaluation and treatment of patients with physical disabilities. Prerequisites: Physics, ZOO 3731, ZOO 3731L, PCB 3702, OTH 3413, OTH 3413L or equivalents.

OTH 4421L Blomechanics in Rehabilitation Lab (1). Laboratory to accompany OTH 4421. Prerequisites: Physics, ZOO 3731, ZOO 3731L, PCB 3702, OTH 3413, OTH 3413L or equivalents. Corequisite: OTH 4421.

OTH 4422 Evaluation and Treatment of Central Nervous System Dysfunction (4). Occupational therapy evaluation and treatment of central nervous system dysfunction for clients of all ages. Prerequisite: PCB 3702, ZOO 4743 or equivalents

OTH 4422L Evaluation and Treatment of Central Nervous System Dysfunction Lab (1). Laboratory to accompany OTH 4422. Prerequisites: PCB 3702, ZCO 4743 or equivalents. Corequisite: OTH 4422.

OTH 4714 Treatment Planning and Patient Management (3). By means of case studies, students will have an opportunity to develop in-depth treatment planning and consider issues in patient management. Prerequisites OTH 3160, OTH 3160L, OTH 4421, OTH 4422, OTH 4422L. Corequisite: OTH 4170L.

OTH 4761 Professional Issues in Occupational Therapy (3) Professional issues facing occupational therapists including the role of research, organizational systems, and advocacy Prerequisites. Statistics, OTH 3004 or equivalents

OTH 4813L Psychiatric Skills Lab for Occupational Therapy II (1).

OTH 4850 Field Work Experience (12). Three months internship in a clinical setting.

OTH 4851 Field Work Experience (12). Three months internship in a clinical setting.

OTH 4852 Fleld Work Experience (VAR). Internship in a specialized treatment area.

OTH 4904 Independent Study (VAR). To be arranged with instructor according to the student's specialty.

OTH 4930 Mental Health Seminar (3). Course combines literature review and site visits to develop student's capability for critical analysis of occupational therapy program development in mental health. Prerequisites: Senior status or permission of instructor

OTH 4931 Work Evaluation Seminar (3). The measurement and analysis of client abilities and work requirements applicable to the practice of occupational therapy. Perequisites. Senior status or permission of instructor.

OTH 4932 Pediatric Seminer (3). Review of current research in advanced pediatric practice. Coordinated clinical experiences offer opportunities for application of theoretical approaches to evaluation and treatment. Prerequisites: Senior status or permission of instructor.

OTH 5174 Advanced OT Techniques in Upper Limb Prosthetics and Orthotics (3). Clinical OT techniques and pathomechanics applied to upper limb dystunction including utilization of biofeedback and myoelectric components. Prerequisites: OTH 4421 and OTH 4170.

OTH 5195 Occupational Therapy Job Modification (3) Analysis and adaptation of client's workplace for the disabled Prerequisite: Admission to program or permission of instructer.

OTH 5345 Occupational Therapy Program Development in Psychiatry (3). Seminar discussion and practical experience in OT programming in psychiatry Prerequisite: Admission to program or permission of instructor

OTH 5326 Psychiatric O.T.:
Contemporary Theory and Practice
(3). Examination of contemporary
knowledge relevant to the theory and
practice of O T in psychiatry
Prorequisite: Admission to Program or
permission of instructor

OTH 5407 Theoretical Perspectives of Pain (3). Theoretical perspectives of pain: etiology, assessment, management and effects. Prerequisite: Admission to the program or permission of instructor.

OTH 5440 Treatment Approaches for the Neurologically Impaired (3).In depth instruction in approaches to the neurologically impaired patient. Emphasis will be on dysfunction due to stroke or head injury. Prerequisite: OTH 4422 or equivalent.

OTH 5630 OT Assessment of the Elderly (3). Study of assessment techniques appropriate for OT evaluation of the elderly. Prerequisite: Admission to program.

OTH 5764 Research In a Cilnical Speciality (3). Participation in ongoing research of laculty members in clinical speciality area. Prerequisite: Permission of instructor.

OTH 6009 Current Issues and Theories of Occupational Therapy (3). Exploration of current issues and theories in Occupational Therapy leading to development of student's theoretical reference for practice. Prerequisite: Admission to the program.

OTH 6215 Advanced OT Intervention Strategles (3). Principles and characteristics of treatment regimens designed to enhance the study of treatment effectiveness. Emphasis on application of activity appropriate for student's clinical concentration. Prerequisite: Admission to program.

OTH 6265 Measurement and Assessment in Occupational Therapy (3). Measurement concepts and practices used in occupational therapy evaluation. Prerequisite: Admission to program or permission of instructor.

OTH 6538 Advanced Methods In Pedlatric Assessment (3). Advanced applications of theory and research in the area of pediatric occupational therapy assessment. Skills in neonatal, neurodevelopmental, occupational behavior, and computer-assisted methods.

OTH 6548 Advanced Methods in Pediatric Occupational Therapy (3). Advanced application of theory and research in occupational therapy. Includes neurodevelopmental treatment approaches, neonates through adolescents. Prerequisite: OTH 6538

OTH 6948 Continuing Clinical Competence for Occupational Therapists (3). Design, execution, and presentation of a major Occupational Therapy project.

OTH 6970 Master's Thesis (3). Supervised research on a research project submitted in partial fulfillment of Master's degree requirement. Prerequisite: Permission of major professor.

Public Health

Joseph Patterson, Professor and Director Audrey E. Bally, Coordinator of Field Training Thomas J. Thompson, Assistant Professor

Master of Public Health

The Master of Public Health is an affiliated program offered with the Department of Epidemiology and Public Health at the University of Miami's School of Medicine.

The program is designed to provide fundamental skills in core areas of Public Health to persons involved in the policy development, planning, and implementation of community health services; and to serve those seeking a broader base of knowledge to improve environmental and personal health services for the community. This program prepares the practicing professional in the diverse fields of community health.

Admission Requirements: Applicants must meet the University's general graduate admission requirements:

1. A bachelor's degree or equivalent Irom an accredited college or university or, in the case of foreign students, an institution recognized in its own country as preparing students for further study at the graduate level, and submit a score of 500 on the TOEFL.

2. A minimum 3.0 GPA (on the last 60 undergraduate hours), or a combined quantitative and verbal score of 1000 on the GRE taken within the last five years; or a score of 500 on the GMAT; passed the MCAT, LSAT, or equivalent; or a graduate degree from an accredited institution. However, all applicants. regardless of previous GPA, are required to submit the appropriate aptitude test scores. In addition. applicants are required to 1) submit three letters of recommendation from persons in the lield of public health and the academic major at the institution most recently attended; 2) have a personal interview with the Graduate Admission Committee: 3) submit a written personal statement as described in the application packet provided by the Department Public Health; 4) provide a

current curriculum vitae/resume.
Students with diverse
backgrounds will be encouraged to
apply; relevant work experience will be
given strong consideration.

Field Training/Master's Research Project

All MPH students must complete either a field-training residency or a master's research project as a general core course requirement.

FleId Experience Option: This option is recommended for all students with less than three years of experience in health-oriented program. Field experience gives the student the opportunity to gain practical experience under preceptor-guided supervision in public health. Students should consult the Coordinator of Field Training for further information.

Research Option: This option is recommended for students with three or more years of experience in a health-related program. The research project affords the opportunity to conduct research on a specific public health problem or topic in either a community or institutional setting. MPH students who select the research project must choose a faculty member to direct their research. The advisor and the student may identify other resource persons to serve in an advisory capacity for the research project.

Degree Requirements: Students must complete at least 45 semester hours of approved coursework with a minimum of a "B" average. All work applicable to the degree must be completed within six years immediately preceding the awarding of the Master's degree.

Program of Study

The course of study is designed to allow students to concentrate in one of lour areas:

Environmental Health
Epidemiology
Health Promotion
Public Health Policy and
Administration

Courses for the Master of Public Health are divided into four major areas:

General Core (18 semester hours); Field or Research Project (3 semester hours); Concentration Core (18 semester hours); General Electives (6 semester hours).

General Core Courses: (18 semester hours)

HSA 5125

Introduction to Health Services

HSC 5515 Statistical Research

3

3 3 3

PHC 6315	Public Health and Environmental		Concentrati hours)	on Electives: (9 semes	ter	HSA 6155	Health Care Policy and Economics
	Management	3	Select at lea	st three courses from th	e	HSA 6175	Financial Management
HSA 6405	Behavioral Aspects of		following list:				of Health Systems
	Health and Practice	3	ENV 5062	Environmental Health	1 3	HSA 6149	Strategic Planning and
HSA 6185	Health Care		ENV 5115	Air Pollution Control	3		Marketing of Health
	Management Theory		ENV 5116	Air Sampling Analysis	s 3		Services
	and Practice	3	ENV 5126	Air Quality Managem	ent3		
HSC 5506	Epidemiology and		ENV 5306	Solid Wastes	3	Concentrati	on Electives: (6 semester
	Research Methods for		ENV 5506	Occupational Health	3	hours) Selec	t two courses from the
	Public Health	3	ENV 5520	Vector and Pest Con	trol3	following list	
			ENV 5655	Environmental Plann	ing 3	HSA 6215	HMO and Ambulatory
Field or Res	earch Project: (3 semeste	er	ENV 5666	Water Quality	•		Care Administration
hours)				Management	3	HSA 5408	Health Services
HSA 6875	Administrative		ENV 6508	Occupational Health			Consumer Behavior
	Residency	3		and Toxicology	3	HSA 5425	Long Term Care
	or		C	-41			Administration
HSA 6977	Master's Research		General Ele	ctives: (6 semester hou	irs)	HSA 6187	Personnel Management

Epidemiology Concentration

Epidemiology is the study of the distribution of diseases in the community and the factors influencing or determining this distribution. Interested students should contact the Department at 940-5877

Health Promotion Concentration

Required Courses: (12 semester hours)				
PHC 6501	Health Promotion			
	Communication			
	Theory and Design	3		
PHC 6503	Community Organization	on		
	for Health Promotion	3		
PHC 6580	Contemporary Issues			
	in Health Promotion	3		
PHC 6750	Program Development			
	and Evaluation in			
	Health Promotion	3		

	Health Promotion	3
hours)	n Electives: (6 semeste	r
list:	irses from the following	
PHC 6016	Social Epidemiology, Health Promotion	
	and Policy	3
PHC 6150	Public Health Policy Analysis and	
	Formulation	3
PHC 6311	Environmental Health Risk Assessment	3
PHC 6502	Health Promotion	Ŭ
	in the Workplace	3

General Electives: (6 semester hours)

Health Promotion in

the Clinical Settings

Public Heelth Policy and Administration Concentration
Emphasis is on Health Policy Analysis and Ambulatory Care Administration

Required Courses: (12 semester hours) PHC 6150 Public Health Pelicy Analysis and Formulation

nours) Select	two courses from the	
following list:		
HSA 6215	HMO and Ambulatory	
	Care Administration	3
HSA 5408	Health Services	
	Consumer Behavior	3
HSA 5425	Long Term Care	
	Administration	3
HSA 6187	Personnel Managemen	ıt.
	and Labor Relations	3
PHC 6425	Legal and Regulatory	
	Aspects of	
	Environmental Health	3
PHC 6503	Community Organization	on
	for Health Promotion	3

General Electives: (6 semester hours)

Course Descriptions PHC - Public Health

PHC 6016 Social Epidemiology, Health Promotion and Policy (3). Explores the epidemiological aspects of health and medical care of the poor and disadvantaged population groups. Emphasis on the relationship of organization and delivery of health care, including health promotion, prevention, and related topics. Prerequisite: HSC 5506.

PHC 6150 Public Health Policy Analysis and Formulation (3). Strategies for formulating public health policy; political processes; resource allocation, organization, and participation. Examination of current policy issues and efforts to effect change.

PHC 6311 Environmental Health Risk Assessment (3). This course explores environmental health care management problems associated with risk to the population from exposure to particular agents and conditions. Emphasizes practical problems in risk estimation through the case method approach.

PHC 6315 Public Health and Environmental Management (3) An overview of public health philosophy and government organization in the provision of official agency, environmental, and preventive medicine services, with particular emphasis on the regulatory and survoillance responsibilities authorized in the public sector Prorequisite: HSA 5125 or permission of instructor.

Required Courses: (12 semester hours) Public Health Policy PHC 6150 Analysis and Formulation 3 PHC 6311 Environmental Health 3 Risk Assessment PHC 6425 Legal and Regulatory Aspects of Environmental Health PHC 6501 Health Promotion Communication Theory and Design 3 Concentration Electives: (6 semester

Project

Environmental Health Concentration

Department of Civil and Environmental

(Offered in cooperation with the

Engineering)

hours) Select at least three courses from the

lollowing list:

EES 5506 Occupational Health ENV 5062 Environmental Health HSA 6149 Strategic Planning and Marketing of Health Services Health Care Policy and **HSA 6155** Economics **HSA 6175** Financial Management of Health Systems HSA 6716 Advanced Application of Operation Research 3 PHC 6150 Public Health Policy Analysis and Formulation

General Electives (6 semester hours)

Environmental Health Science Option Required Courses (9 semester hours) PHC 6150 **Public Health Policy** Analysis and Formulation 3

PHC 6311 Environmental Health Risk Assessment PHC 6425 Legal and Regulatory

Aspects of Environmental Health

3

PHC 6585

PHC 6425 Legal and Regulatory Aspects of Environmental Health (3). The application of law as it relates to the environment and human health. Legal process and rule-making; cost-benefit analysis; judicial review; evidentiary problems; and other elements of environmental law are emphasized. Prerequisites: Epidemiology and Biostatistics

PHC 6501 Health Promotion Communication Theory and Design (3). Theory, design, and implementation of health education communication utilized in reaching the public. Emphasis on the critical analysis of the communication processes; group techniques and media methods; and the consultation process. Prerequisite: Health Promotion Concentration or by permission of instructor.

PHC 6502 Health Promotion in the Workplace (3). Emphasis is on program design, management, and evaluation of health promotion in industry. Current issues on health assessment, fitness, and emotional stress in the workplace will be considered. Prerequisite: Health Promotion Concentration or permission of instructor.

PHC 6503 Community Organization for Health Promotion (3). Emphasis is on the diagnosis of community health problems and various organizational strategies utilized for effective solution. Review and analysis of community organization process; resources; and the role of health promotion specialist. Prerequisite: Health Promotion Concentration or permission of instructor.

PHC 6580 Contemporary issues in Health Promotion (3). Current problems and findings in health promotion content areas as smoking, alcohol, and drug misuse, family health, safety, physical fitness, communicable and chronic diseases will be discussed. Prerequisites: Epidemiology and Biostatistics.

PHC 6585 Health Promotion in Clinical Settings (3). Analysis of the role, methods, and techniques of health promotion and patient education pertaining to hospitals, clinics and other ambulatory health services. Prerequisites: Epidemiology and Biostatistics.

PHC 6750 Program Development and Evaluation In Health Promotion (3). Principles and procedures in health promotion program development and evaluation. Emphasis on needs assessment, planning models, evaluation designs, data collection,

analysis and reporting. Prerequisites: Epidemiology and Biostatistics.

Physical Therapy

Awilda R. Haskins, Assistant Professor and Chairperson Burton J. Dunevitz, Associate Professor

Leonard Elbaum, Assistant Professor Jennifer Lander, Assistant Professor Elizabeth Revelj, Associate Professor

The program is accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association, a specialized accrediting body recognized by the Council on Post-Secondary Accreditation. The emphasis is placed upon a student-centered approach whereby individuals progress through a variety of learning experiences designed to develop their evaluative and applied therapeutic skills in the treatment of musculoskeletal, neurologic, cardiovascular, and pulmonary disorders.

The students receive experiential and didactic instruction from clinical physical therapists, physicians, and other medical professionals. Clinical education is conducted in accredited centers throughout the United States.

Graduates of the program are prepared to assume employment in general hospitals, rehabilitation centers, private clinics, home health care facilities, school systems, sports medicine units, and in the self-employed sector

Students who apply for admission to the program must meet the physical therapy prerequisites and the general education requirements of the University. Acceptance must be determined both by the University and the Physical Therapy Department. Enrollment is limited and admission is selective

Note: Students must contact the Physical Therapy Department directly for all applications and information materials before December 15th. Deadline for receiving applications is January 15. Classes are selected in April to commence coursework in June.

Undergraduate Degree Program

Degree: Bachelor of Science

Lower Division Preparation At least 60 semester hours of an acceptable level of college credit work; which includes at least one semester of statistics and the following prerequisite courses: at least one academic year of science coursework (including laboratory) in each of the areas of biology/zoology (Human or Vertebrate Anatomy and Physiology is recommended), chemistry, and physics as well as three courses in psychology or two psychology and one sociology (child development is recommended); a minimal GPA average of 2.75 in the prerequisite courses and a minimal overall GPA of 2.75 by December 31 of the year prior to the anticipated admission, or attainment of an overall GPA of less than 2.75, but with a prerequisite GPA of 3.3 or higher; completion of at least 50 clock hours of work in, observation of, or interviews with personnel in physical therapy clinics. The greater the number of hours of experience and the wider the variety, the better qualified the candidates become.

To be admitted into the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

At least 14 hours of prerequisites must be completed before December 31. All general education and prerequisites must be completed no later than the Spring semester.

Upper Division Program

PHT 3141

PHT 3141

All Required Courses: (99 semester hours)

Junior Year Summer Semester (6 semester hours)

ZOO 3734 ZOO 3734L	Gross Anatomy II Gross Anatomy Lab II	2
PHT 3001	Introduction to Physical Therapy	1
Fail Semester	(16 semester hours)	
PHT 3122	Clinical Kinesiology	5
PHT 3122L	Clinical Kinesiology	
	Laboratory	1
PHT 3258	Basic Procedures	1
PHT 3258L	Basic Procedures Lab	1
PHT 3812	Clinical Practicum I	
	(Optional)	1
PCB 3703	Human Physiology I	3
ZOO 3733	Gross Anatomy I	3
ZOO 3733L	Gross Anatomy Lab I	2
Spring Semester (16 semester hours)		
PHT 3133	Musculoskeletal	
	Evaluation	1
PHT 3133L	Musculoskeletal	

Evaluation Lab

the Life Cycles

Evaluation Through

Evaluation Through

the Life Cycles Lab

1

2

1

PHT 3222	Therapeutic Exercise	1
PHT 3222L	Therapeutic Exercise Lab	2
PHT 3150L	Physical Therapy and Fitness Lab	
PHT 3310	Orthopedics	4
		3
PCB 3704	Human Physiology II	3
	ester (12-15 semester	
hours)		
PHT 3259	Treatment of Pain	3
PHT 3259L	Electrotherapy Lab	1
PHT 3250	Problem Solving in	
	Musculoskeletal	
	Disorders	1
PHT 3400	Emotional Aspects of	
	Physical Disability	2
PHT 3804	Sections L1 and L2	
1111 0004	Junior Clinical	
	Internship	5
PHT 4905	Independent Study	,
PH 1 4905		
	(optional)	1-3

Senior Year Fall Semester (16 semester hours)

Structural and Functional

3

PHT 4160

	Aspects of Neurology	4
PHT 4231	Rehabilitation	1
PHT 4231L	Rehabilitation Lab	2
PHT 4234	Neurorehabilitation	2
PHT 4234L	Neurorehabilitation Lab	2
PHT 4300	Physical Therapy and	
	Human Disorders	3
PHT 4933	Independent Research i	i
	n Physical Therapy	1
PHT 4814	Clinical Practicum II	1
Spring Semes	iter (18 semester hours)	
PHT 4233	Neurohabilitation	2
PHT 4233L	Neurohabilitation Lab	1
PHT 4313	Clinical Neurology	4
PHT 4510	Organization and	
	Administration	3
PHT 4934	Physical Therapy	
	Research Seminar	2
PHT 4936	Research Seminar Current Topics	3

Summer Semester (15-18 semester hours)

hours)		
PHT 4826	Senior Clinical	
	Internship	5
PHT 4827	Senior Clinical I	
	nternship II	5
PHT 4828	Senior Clinical	
	Internship II	5-8

Course Descriptions

Definition of Prefixes

Humanities Elective

PCB and ZOO - Biological Sciences; PHT - Physical Therapy

PHT 3001 Introduction to Physical Therapy (1). A survey of the profession vis-a-vis other health professions; ethics, and basic medical communication

PHT 3122 Clinical Kinesiology (5). A study of the anatomical, physiological, and biomechanical principles as related to the analysis of motion of the normal human body, with direct correlation to the clinical situation.

PHT 3122L Clinical Kineslology Lab (1). Laboratory experiences in identifying and palpating the various components of the human musculoskeletal system while the body is at rest and in motion.

PHT 3133 Musculoskeletal Evaluation (1). Theory and fundamentals of goniometry, joint mobilization, muscle testing, x-ray identification, and posture and gait evaluation.

PHT 3133L Musculoskeletal Evaluation Lab (1). Laboratory practice in a longet depoinded poindentry, joint mobilization, muscle testing, x-ray identification and posture and gait evaluation.

PHT 3141 Evaluation Through the Life Cycles (2). A study of the neuromuscular systems through the life cycles; includes evaluation methods; a prerequisite to PHT 4233.

PHT 3141L Evaluation Through the Life Cycles Lab (1). Laboratory and field experiences will be utilized for practice of evaluation techniques. Corequisite: PHT 3141.

PHT 3150L Physical Therapy and Fitness Lab (1). Laboratory experience for application of and participation in physical therapy programs for people who seek optimal movement function. Focus on sports and fitness training. Corequisite: PCB 3704.

PHT 3222 Therapeutic Exercise (1). The principles and rationale for basic therapeutic exercise procedures are presented in lecture format.

PHT 3222L Therapeutic Exercise Lab (2). Laboratory experiences provide practice and evaluation in techniques of applying the principles of therapeutic exercise. Corequisite PHT 3222

PHT 3250 Problem Solving In Musculoskeletal Disorders (1). A seminar class wherein students are assigned a clinical orthopedic problem and evalu ate, goal set, treatment plan and role play the treatment application. Prerequisites PHT 3133, 3133L, 3310, 3222, 3222L

PHT 3258 Basic Procedures (1). A lecture format is used to study the scientific rationale for basic physical therapy procedures including vital signs measurement, massage, and superficial heat

PHT 3258L Procedures Lab (1).
Laboratory experience and evaluation of skills in basic physical therapy procedures including vital signs measurement, massage, and superficial heat. Corequisite: PHT 3258.

PHT 3259 Treatment of Pain (3). Application of current theories of the causes and management of acute and chronic pain to the use of electrotherapeutic modalities in physical therapy. Corequisite: PHT 3259L.

PHT 3259L Electrotherapy Lab. (1). Laboratory experience to develop competency with electrotherapeutic modalities in the treatment of pain. Includes low volt and high volt current, TENS, ultrasound, diathermy, iontophoresis, biofeedback. Corequisite: PHT 3259.

PHT 3310 Orthopedics (4). Multimedia lectures and patient case studies presented on the evaluation and management (surgical and non-surgical) of the orthopedic patient, correlated with laboratory practice in evaluative and treatment skills.

PHT 3400 Emotional Aspects of Physical Disability (2). Examines attitudes of physical therapists toward disability, emotional reactions of patients to their own disability, and emotional disorders commonly seen in patients treated by physical therapists.

PHT 3812 Clinical Practicum I (1). A one day a week observation experience for physical therapy majors designed to orient the student to physical therapy clinical practice. Prerequisite: Junior standing in the PT program.

PHT 3813 Clinical Internship (5). Supervised full- time clinical experience, designed to offer the student experience in patient care, particularly musculoskeletal evaluation, application of basic physical techniques, and orthopedic planning and implementation.

PHT 4160 Structural and Functional Aspects of Neurology (4). Study of the structure and functions of those components of the central and peripheral nervous systems as they govern normalcy and evidence pathology Prerequisites ZOO 3733, ZOO 3733L

PHT 4231 Rehabilitation (1). Explores functional evaluation, goal setting, and treatment planning for severely debilitated patients with medical, cardiac, pulmenary, thermal and spinal cord related disabilities. Other health disciplines participate in some presentations.

PHT 4231L Rehabilitation Lab (2). Laboratory practice in submaximal cardiac stress testing, chest physical therapy, splinting, ADL training, wheelchair fitting, and treatment of patients with spinal cord injuries. Corequisite:PHT 4231.

PHT 4233 Neurohabilitation (2). Application of various exercise techniques to the treatment of individuals with neurodevelopmental deficits.

PHT 4233L Neurohabilitation Lab (1). Laboratory and field experiences will be utilized for practice of neurohabilitation techniques. Corequisite: PHT 4233.

PHT 4234 Neurorehabilitation (2). A lecture/discussion format is used to study various neurophysiological theories and principles which are applied in rehabilitation.

PHT 4234L Neurorehabilitation Lab (2). Laboratory experiences in application of the Neurorehabilitation lecture material from PHT 4234. Corequisite: PHT 4234.

PHT 4300 Physical Therapy and Human Disorders (3). Study of systemic and organ-specific disease and the related medical terminology as they relate to the practice of physical therapy; explores the current literature in selected disease topics.

PHT 4313 Clinical Neurology (4). Emphasizes evaluation differential diagnosis, goal setting, and treatment planning for patients with neurologic disability. Presented by neurologists and by physical therapists who provide clinical experience in neurologic evaluation.

PHT 4510 Organization and Administration (3). A study in the management of physical therapy delivery systems and current health trends affecting the profession.

PHT 4814 Clinical Practicum II (1). A one day a week experience for senior physical therapy majors; designed to enable the student to maintain clinical skills through clinical practice. Prerequisites: PHT 3804 and senior standing in the PT program.

PHT 4826 Senior Clinical Internship (5). Supervised full-time clinical experience, designed to afford the student the opportunity to practice total patient care, as well as administration and supervision in physical therapy.

PHT 4827 Senior Clinical Internship II (5). Continuation of PHT 4826. Corequisite: PHT 4826. PHT 4828 Senior Clinical Internship III (5-8). Continuation of PHT 4826 and PHT 4827. Pre- or Corequisite: PHT 4826.

PHT 4905 Independent Study (1-3). The student will select a particular aspect of physical therapy or closely related subject for in-depth independent study with a faculty preceptor.

PHT 4933 Independent Research In Physical Therapy (1). This course will provide physical therapy students with the background of didactic information necessary for them to complete a research project in PHT 4934.

PHT 4934 Physical Therapy Research Seminar (2). To allow students to collect data, analyze results, and submit findings in accepted written style; includes oral presentations to an audience of health professionals.

PHT 4936 Current Topics in Physical Therapy (1-3). Study of a current topic or limited number of topics not otherwise presented in the curriculum. May be repeated with different subject content. Prerequisite: Senior standing.

PHT 5320 Evaluating and Treating Handicapped Children (5). Based on review of neuromusculoskeletal development and dysfunction, theories of neurohabilitation and pediatric orthopedics are presented and applied through lectures and labs. Corequisites: PHT 5510, 5810, 5400.

PHT 5405 Teaching Physical Therapy Treatment Programs (3). Lectures and projects to plan in-service programs, prepare written instructions, and teach other staff and lamilies about P.T. programs in Spanish and English. Corequisites: PHT 5810, 5510, 5320C.

PHT 5515 Managing P.T. Services for Handicapped Children (2). Lectures and group work to develop consulting and management skills in physical therapists who provide services to handicapped children. Corequisites: PHT 5320C, 5810, 5400.

PHT 5815 Clerkship In Pedlatric Physical Therapy (2). Two-week full-time clinical experience in a school system combined with independent study of question or issue in pediatric P.T. to be presented as a proposal. Corequisites: PHT 5320C, 5400, 5510.

PHT 6127 Advanced Pathologic Movement Analysis (3). Explores the abnormal gait and movement patterns as they relate to pathologic states involving either the musculoskeletal or the neurologic system, or both. Prerequisite: Permission of major advisor.

PHT 6165 Applied Clinical Neuroanatomy (3). Examines correlation of sites of pathology in the central and peripheral nervous systems with actual patients; their signs and symptoms, their regimen of irratment, and prognosis for rehabilitation. Prerequisites: Neuroanatomy and permission of major advisor.

PHT 6325 Advanced Clinical Pediatric Physical Therapy (3). The study of assessment, theory, treatment and current clinical research in pediatric physical therapy practice. Prerequisite: Permission of major advisor.

PHT 6237 Environments/Energy Expenditures of the Disabled (3). Analysis of the home and work settings in relation to various forms of physical disabilities. Energy expenditures pertaining to environmental factors as they pertain to physical therapy evaluation and treatment. Prerequisite: Permission of major advisor.

PHT 6238 Motor Development: Adult Through Gerlatics (3). A study of motor development of the adult through old age. Application of developmental principles to physical therapy practice and research. Prerequisite: Permission of major advisor.

PHT 6239 Adult Congenital Handlcapping Conditions (3). A study of the congenitally handicapped person as an adult; including aspects of societal perspectives, political and public policy regarding the handicapped, and current theory in P.T. treatment. Prerequisite: Permission of major advisor.

PHT 6365 Theories In Sporta Physical Therapy (3). Study and exploration of relevant issues in sports physical therapy. Focus on problem identification, investigation, analysis, and problem solving approaches. Prerequisite: Permission of major advisor.

PHT 6714 Spinal Dysfunction I (Lower Back) (3). In-depth exploration of the evaluation and treatment of various lumbar spine dysfunctions. Prerequisite: Permission of major advisor.

PHT 6715 Spinal Dysfunction II (Upper Back) (3). In-depth exploration of the evaluation and treatment of various cervical spine dysfunctions. Prerequisite: Permission of major advisor.

PHT 6716 Theories in Orthopedic Physical Therapy (3). Study and exploration of relevant issues in orthopedic physical therapy. Focus on problem identification, investigation, analysis, and problem solving approaches. Prerequisite: Permission of major advisor.

PHT 6718 Theories in

Neurorehabilitation (3). Examines recent developments in medical and surgical treatment of neurologic disorders as they pertain to physical therapy evaluation and treatment. Prerequisite: Permission of major advisor.

PHT 6725 Extremity Evaluation and Rehabilitation (3). In-depth exploration, critical analysis, and investigation of joint and extremity dysfunctions. Prerequisite: Permission of major advisor.

PHT 6875 Advanced Physical Therapy Clinical Research Methodologies and Design (3). Exploration of scientific method and theory as applied to clinical and experimental research in physical therapy; includes method of inquiry, techniques of data collection, organization, and interpretation. Prerequisites: STA 5126 and permission of major advisor.

PHT 6971 Master's Thesis (1-3). Supervised research which demonstrates the application of analytical, conceptual and technical skills to a specific physical therapy program. Prerequisite: Permission of major advisor.

Prosthetics and **Orthotics**

Ronald W. Splers, Associate Professor and Chairperson David W. Bilby, Instructor

Geza F. Kogler, Instructor

Prosthetics and Orthotics are health professions concerned with rehabilitating patients with disabling conditions. Prosthetics is the science of designing and fitting a replacement for an absent limb or limb-segment, and orthotics is the science of designing and litting a supportive or corrective device for an affected or abnormal functioning existing body segment. At the request of and in consultation with the physician, the prosthetist/orthotist assists in the formulation of prescription for the prosthesis/orthosis, and evaluates the patients' needs in relation to their particular condition, disease entity, and functional loss

Prosthetics/orthotics basically requires a mechanical system be designed and fitted to a physiological system, such that the added mechanical device replaces a lost limb or supports or corrects an existing body segment abnormality. This illegal marriage of mechanical and physiological systems is reflected directly within the content of the course of study; the emphasis being placed on anatomy, physiology, pathology, kinesiology, biomechanics. and mechanical engineering. Concurrently with these topics prosthetics/orthotics science is also taught. Functioning in the clinical setting as an active member of a health care team, the prosthetist/orthotist collaborates with other health care professionals in the rehabilitation of patients with chronic, disabling illnesses and injuries or birth defects. Qualities that are necessary to be a successful presthetist/orthotist include the ability to work with others, look at the totality of human performance, think creatively, problem-solve, and direct the actions of others

To be admitted to the program in prosthetics/orthotics, applicants must meet the requirements for admission to the University, have a cumulative GPA of 2.6 or higher, have completed the required prerequisites, lower division requirements including CLAST, and 60 semester hours of acceptable academic credit. Applicants must apply both to the University and to the prosthetic/orthotic department. Enrollment is limited and one class is selected each academic year to begin Fall semester.

Degree: Bachelor of Science in Prosthetics and Orthotics

Lower Division Program Required Courses

1. Biological or physical sciences, or both, six semester hours to include three semester hours of Biology with lab Recommended Courses: Anatomy with Lab, Human Anatomy and Physiology with Lab

2. Mathematics - six semester hours Recommended courses, Trigonometry; Calculus with Analytic Geometry, Analytic Geometry

Physics - six semester hours. Recommended courses. Physics with Lab. Mechanics

4. Psychology - three semester hours Human Growth and Development, Human Relations, Introduction to Psychology

Upper Division Program Required Courses

	First Year	
Fall Semester	(16 semester hours)	
ZOO 3731	Human Anatemy	3
ZOO 3731L	Human Anatemy Lab	- 1
EGN 3365	Materials in	
	Engineering	3

OTH 4411	Pathology and Medical	
PRO 3000	Surgical Disorders Prosthetic and Orthotic	3
Electives	Techniques	2
	ster (16 semester hours)	
OTH 3413	Applied Kinesiology	2
OTH 3413L	Applied Kinesiology	
DDO 2200	Lab	1
PRO 3300	Below Knee Prosthetics	3
PRO 3300L	Below Knee	٠
PHO 3300L	Prosthetics Lab	,
PRO 3310	Lower Limb Orthotics I	2
PRO 3310	Lower Limb Orthotics II	2
PRO 3310L	Lower Limb Orthotics	•
1110 33102	Lab	;
Summer Sem	ester (6 semester hours)	١
OTH 3007	Medical Terminology	١.
PHT 3310C	Orthopedics	:
PRO 3800	Field Work Experience	
	Level	(
9	Second Year	
	(17 semester hours)	
ETM 3510	Mechanical Design I	(
PCB 3702	Intermediate Human	
	Physiology	;
PRO 4330	Above Knee	
	Prosthetics I	2
PRO 4340	Above Knee	
	Prosthetics II	2
PRO 4330L	Above Knee Prosthetics	i
	Lab	(
PRO 4350	Spinal Orthotics	2
PRO 4350L	Spinal Orthotics Lab	2
	ster (16 semester hours)	
MAN 4802	Small Business	
	Management	(
DEP 3402	Psychology of	
	Adulthoed	(
PRO 4360	Upper Limb	
	Prosthetics	(
DDO 42COL	Hanna Linck	

1 HO 4330	Spirial Ortholics	_
PRO 4350L	Spinal Orthotics Lab	2
Spring Seme	ester (16 semester hours	s)
MAN 4802	Small Business	
	Management	3
DEP 3402	Psychology of	
	Adultheed	3
PRO 4360	Upper Limb	
	Prosthetics	3
PRO 4360L	Upper Limb	
	Prosthetics Lab	2
PRO 4370	Upper Limb Orthotics	3
PRO 4370L	Upper Limb Orthotics	
	Lab	2

Summer Semester PRO 4850 Clinical Internship Supervised Setting - 13 week placement

Course Descriptions

Definition of Prefixes PRO-Prosthetics/Orthotics

PRO 3000 Introduction to Prosthetics and Orthotics (4), Lecture and demonstrations to introduce the student to presthetic orthotic and biomechanical

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principles utilized during the clinical rehabilitation process. Prerequisites: Admission to program or permission of instructor, or both.

PRO 3300 Below Knee Prosthetics (3). Techniques of evaluation and design for all types of below knee amputations as well as instruction in fitting the amputee. Prerequisite: PRO 3000. Corequisite: PRO 3300L.

PRO 3300L Below Knee Prosthetic Laboratory (3). Observation and supervised application of below knee amputee assessment, device recommendation, and fabrication techniques. Prerequisite: PRO 3000. Corequisite: PRO 3000.

PRO 3310 Lower Limb Orthotics I (2). Focus is on the management of adult and juvenile patients with ankle/foot disabilities. Prerequisite: PRO 3000. Corequisites: PRO 3320, PRO 3310L.

PRO 3310L Lower Limb Orthotics Laboratory (3). Laboratory sessions focus on the orthotic management of juvenile and adult patients with lower limb disabilities. Prerequisite: PRO 3000. Corequisites: PRO 3310, PRO 3320.

PRO 3320 Lower Limb Orthotics II (3). Focus is on the orthotic management of adult and juvenile patients with conditions affecting hip and knee. Prerequisite: PRO 3000. Corequisites: PRO 3310, PRO 3310L.

PRO 3800 Field Work Experience (3). Clinical experience in an approved prosthetic or orthotic center, or both. Prerequisite: PRO 3000, PRO 3310L.

PRO 4330 Above Knee Prosthetics I (2). Principles of fabrication, fit, dynamic alignment, techniques of evaluation, and education for suction suspended prostheses. Prerequisite: PRO 3300, PRO 3300L. Corequisites: PRO 4300L, PRO 4340.

PRO 4330L Above Knee Prosthetics Laboratory (3). Observation and supervised application of prosthetics for above knee amputee patients; assessment, device recommendation, and fabrication techniques. Prerequisites: PRO 3300, PRO 3300L. Corequisites: PRO 4330, PRO 4340.

PRO 4340 Above Knee Prosthetics II (2). Principles of fabrication, fit, dynamic dignment, techniques of evaluation and education for conventional non-suction prostheses. Prerequisites: PRO 3300, PRO 3300L. Corequisites: PRO 4330L, PRO 4330L

PRO 4350 Spinal Orthotics (2). Spinal and pelvic biomechanics and pathomechanics, components and techniques for fabrication of spinal orthosis. Preraquisite: PRO 3000. Corequisite: PRO 4350L.

PRO 4350L Spinal Orthotic Laboratory (2). Application of principles and techniques presented in PRO 4350 to the construction of spinal orthosis. Prerequisite: PRO 3000. Corequisite: PRO 4350.

PRO 4360 Upper Limb Prosthetics (3). Principles and techniques of prosthetic evaluation and design for all levels of upper extremity amputees. Prerequisite: PRO 3000. Corequisite: PRO 4360L.

PRO 4360L Upper Limb Prosthetics Laboratory (2). Client assessment, device recommendation, and fabrication of upper limb prosthetic devices. Prerequisite: PRO 3000. Corequisite: PRO 4360.

PRO 4370 Upper Limb Orthotics (3). Biomechanics and pathomechanics as applied to upper extremity orthotic components and materials. Prerequisite: PRO 3000. Corequisite: PRO 4370L.

PRO 4370L Upper Limb Orthotics (2). Application techniques and procedures described for upper limb orthotics, including evaluation of physical and functional deficits, measurement, fabrication, fitting and evaluation of devices. Prerequisite: PRO 3000. Corequisite: PRO 4370.

PRO 4850 Clinical Internship (8). Directed clinical experience in an approved prosthetic or orthotic center, or both. Prerequisite: Satisfactory completion of previous didactic courses or consent of instructor.

Medical Record Coding Certificate

The purpose of the certificate is to offer an ICD-9-CM Coding program for health care personnel within the community. Study shall include basic concepts of terminology, disease processes, and patient classification systems with major emphasis on ICD-9-CM. CPT is included also.

Required Courses

Prerequisites: Anatomy and Physiology with Laboratory
HSC 3531 Medical Terminology

3

MRE 3202 (Must be taken first)
Basic Coding
Procedures
MRE 3401 Fundamentals of

MRE 4204 MRE 3402 Medical Science I Advanced Coding Fundamentals of

Fundamentals of Medical Science II

3

Students must complete their program of study within three years from the date of admission to the certificate program and receive a "C" or higher in each course.

College of Health

Dean William J. Keppler
Chairpersons and Directors:
Dietetics and
Nutrition Nancy S. Wellman

Medical Laboratory
Sciences
Janet A. Lineback
Medical Record

Administration Elizabeth M. Johnson
Occupational
Therapy Reba L. Anderson

Physical Therapy
Prosthetics and
Orthotics
Public Health

Awilda R. Haskins
Ronald W. Spiers
Joseph Patterson

Anderson, Barbara V., M.S., M.T. (ASCP), S.B.B., (Ohio State University), Assistant Professor, Medical Laboratory Sciences

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Dudley, Suze, M.S., O.T.R.JL. (Florida International University), Assistant Professor, Occupational Therapy

Dunevitz, Burton J., Ed.D., P.T. (Nova University), Associate Professor, Physical Therapy

Easton, Penelope S., Ph.D., R.D. (Southern Illinois University), Professor Emeritus, Dietetics and Nutrition

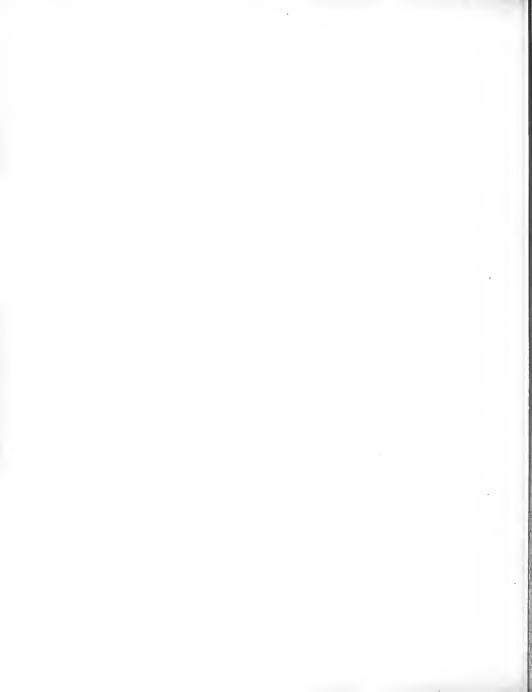
Elbaum, Leonard, M.M., P.T. (University of Miami), Assistant Professor, Physical Therapy

- Enrione, Evelyn, Ph.D., R.D. (Purdue University), Assistant Professor, Dietetics and Nutrition
- Haskins, Awilda R., M.S., P.T. (State University of New York at Buffalo), Assistant Professor and Chairperson, Physical Therapy

Himburg, Susan P., Ph.D., R.D.

- (University of Miami), Associate Professor, Dietetics and Nutrition
- Johnson, Elizabeth, M. B.S., RRA (Florida International University), Instructor and Director, Medical Record Administration
- Kaplan, Susan R., M.H.S., O.T.R.J.L. (University of Florida), Associate Professor and Graduate Coordinator, Occupational Therapy
- Keppler, William J., Ph.D. Board Certified (University of Illinois), Professor, Medical Laboratory Sciences, and Dean
- Keren, Eugene, Ph.D. C., (ASCP) (University of Nebraska), Assistant Professor, Medical Laboratory Sciences
- Kogler, Geza, B.A. C.D. (Wayne State University), Instructor, Prosthetics and Orthotics
- Lander, Jennifer, M.S., P.T. (Long Island University, Brooklyn Center), Assistant Professor, Physical Therapy
- Lineback, Janet A., Ph.D., M.T., (ASCP) (University of Miami), Associate Professor and Chairperson, Medical Laboratory Sciences
- Maguire, Gall H., Ph.D., O.T.R./L (University of Maryland), Professor, Occupational Therapy.
- Michael, Patricia, M.P.H., O.T.R. (University of Oklahoma), Assistant Professor, Occupational Therapy
- Patterson, Joseph, Dr.P.H. (University of California), Professor and Director, Public Health
- Revelj, Elizabeth O., Ed.D., P.T. (Nova University), Associate Professor, Physical Therapy
- Shen, Patrick F., Ph.D., M.T. (ASCP) (University of Arkansas), Associate Professor, Medical Laboratory Sciences
- Smlth, Sylvia L., Ph.D., S.M., (AAM, ASCP) (University of Miami), Associate Professor, Medical Laboratory Sciences
- Spiers, Ronald W., M.Sc., C.P. (Stratclyde University), Associate Professor and Chairperson, Prosthetics and Orthotics
- Thompson, Thomas J., Ph.D., M.P.H. (University of Rhode Island), Assistant Professor, Public Health
- Wellman, Nancy S., Ph.D., R.D. (University of Miami), Associate Professor and Chairperson, Dietetics and Nutrition

Wolgemuth, June, MNS, MPH, Ph.D., R.D. (Cornell University), Assistant Professor, Dietetics and Nutrition



School of Hospitality Management

School of Hospitality Management

Anthony G. Marshall, Dean and Professor

Rocco M. Angelo, Associate Dean and Associate Professor Robert A. Beck, Distinguished Scholar

in Residence
Elio Bellucci, Associate Professor
Leonard Berkowitz, Lecturer

Leonard Berkowltz, Lecturer
M. Chase Burritt, Visiting Assistant
Professor

Patrick J. Cassidy, Visiting Lecturer Edwin Dean, Lecturer Patricia Deveau, Assistant Professor Lee C. Dickson, Associate Professor Peter Goffe, Associate Professor David Grier, Instructor Fritz Hagenmeyer, Associate Professor Albert J. Halehlian, Associate

Fritz Hagenmeyer, Associate Professo. Albert J. Haleblian, Associate Professor Frederick Haverly, Lecturer

Michael Hurst, Professor Richard A. Huse, Associate Professor Charles livento, Associate Professor Michael Kobasky, Director of Student Affairs

Lendal Kotschevar, Professor Steven V. Moll, Associate Professor Elisa Moncarz, Associate Professor William J. Morgan, Jr., Professor Charlea Nichola, Lecturer William O'Brien, Assistant Professor Alan J. Parker, Professor Nestor Portocarrero, Associate

Professor
Roger Probst, Lecturer
Norman Ringstrom, Professor
Kevin Robson, Associate Professor
William Stanford, Lecturer
David M. Tally, Visiting Assistant
Professor

Mary L. Tanke, Assistant Professor Andrew Vladimir, Visiting Assistant Professor

Mickey Warner, Associate Professor Theodore White, Lecturer

The School of Hospitality Management offers Bachelor's and Master's programs that combine practical experience with classroom theory to assist the student to gain the understanding, skills, and techniques needed to qualify for job opportunities, or to achieve his or her career goals in the growing hospitality industry.

With the cooperation of industry executives, the School has created an internship program which literally utilizes the hotels, motels, restaurants, clubs, airlines, travel agencies, and cruise lines as practice labs for students. The advanced phase of the internship program provides each student a structured and closely supervised

management experience normally not available to a student until he or she has entered the industry after graduation. An active Industry Advisory Board - which includes outstanding executives in the hotel, food and travel industries - works regularly with the faculty, staff, and students of the School to formulate and update a curriculum that is current, flexible, and related to the needs of the hospitality industry.

The School has been designated a Program of Distinction by the Board of Regents.

Note: The programs, policies, requirements, and regulations listed in this catalog are continually subject to review, in order to serve the needs of the University's various publics, and to respond to the mandates of the Florida Board of Regents and the Florida Legislature. Changes may be made without advance notice. Please refer to the General Information section for the University's policies, requirements, and regulations.

Admission

Applicants to the School must submit an Application for Admission to the University and must follow the regular University procedures. Applicants must be eligible for admission to the University before admission to the School.

Undergraduate

Any student who has completed two years of college (60 semester hours) may apply for admission. Full credit will be granted both Associate of Arts and Associate of Science degrees. One may enroll on either a full-time or a part-time basis.

It is not necessary to have been previously enrolled in a hotel or restaurant program. The curriculum will provide the specialized professional education to equip the student for a career in hospitality management. Students with training in liberal arts, business, education, or technology, for example, are qualified to enroll in the program.

Graduate

Each candidate for admission to the graduate program must present his or her score on the Graduate Record Examination or the GMAT and proof of a Bachelor's Degree from an accredited institution.

To be admitted, a candidate must have maintained a 'B' average in all upper divisional work or attain a minimum score of 1000 on the Graduate Record Examination (verbal and quantilative aptitude sections) or attain a

minimum score of 450 on the GMAT.

Applicants who meet admissions criteria but lack undergraduate preparation in Hospitality Management must complete a series of undergraduate preparatory courses. Specific courses will depend upon the individual's undergraduate preparation. Twenty-four credit hours of preparatory courses will be required. A maximum of six semester hours of graduate credit may be transferred from any other university or from the graduate programs of this University.

Additional information on admission procedures may be found in the Admission section of the Catalog.

Questions concerning curriculum should be addressed to the Director of Student Affairs of the School of Hospitality Management.

Non-Degree Seeking Students

A number of persons currently employed in the hospitality field may not have the educational requirements to meet degree admission standards, but may be interested in enrolling in certain specific courses to improve their skills and to enhance their chances for promotion. Any person currently employed in the field may register as a Non-Degree Seeking Student for a total of 15 semester hours.

Certificate Program

The School has Certificate Programs in Hotel Management, Restaurant Management, and Travel and Tourism Management. Each program has a core requirement and electives to meet the specific needs of each candidate. The programs are open to all students with a high school education and experience in the industry. The candidate must submit a satisfactory score on the TOEFL exam or its equivalent and a Certificate of Finances document.

Undergraduate Study

The School operates on a single major concept in which a core of 48 semester credits is required of all students. The program requires an additional 15 semester credits of electives. Under this system, the student enjoys maximum flexibility in choosing areas of emphasis while being assured of a comprehensive coverage of all areas of hospitality management.

A maximum of 60 semester credits may be transferred from a junior or community college program. More credits may be transferred from a fouryear institution.

There is a requirement that all students work at least 800 hours in the Hospitality Industry in addition to the Advanced Internship.

Locations

The School is located on two campuses: The North Miami Campus located at Biscayne Boulevard (U.S.1) and Northeast 151 Street, North Miami, Florida

Broward Center located in Fort Lauderdale at 3501 Southwest Davie Road on the Central Campus of Broward Community College.

Degree: Bachelor of Science

Lower Division Preparation

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program. Transfer students should complete a minimum of 60 semester hours including general education requirements. General education requirements must be completed prior to graduation from the University.

Accounting is a prerequisite for taking course work in the accounting and finance areas. The student who has not taken this prerequisite will be required to take this course during his or her first

year at the University.

Course Requirements: (63 semester

Management, Accounting, Finance, and Information Systems: (12

semester hours) HFT 3423 Hospitality Information

	Systems	3
HFT 3453	Hospitality Industry	
	Management	3
HFT 4464	Interpretation of	
	Hospitality Financial	
	Statements	3
HFT 4474	Profit Planning and	
	Decision Making in th	e
	Hospitality Industry	3

Food and Beverage Management:

(15 semester h	nours)	
FSS 3221	Introduction to	
	Commercial Food	
	Production	3
FSS 3232	Intermediate Quantity	
	Food Production	3
FSS 3234	Volume Feeding	
	Management	3
FSS 3243	Basic Meat Science	3
HFT 3263	Restaurant	
	Management	3

Administratio	n: (21 semester hours)	
HFT 3323	Physical Plant	
	Management	3
HFT 3503	Marketing Strategy-	
	Phase I	3
HFT 3514	Marketing Strategy-	
	Phase II	3
HFT 3603	Law as Related to the	
	Hospitality Industry	3

HFT 3700	Fundamentals	
	of Tourism	3
HFT 3945	Advanced Internship	3
HFT 4234	Union Management	
	Relations	3
Electives		15

Degree: Maste	er of Science	
Core Courses	: (39 semester hours)	
HFT 5476	Feasibility Studies	
	for the	
	Hospitality Industry ¹	3
	or	
HFT 5478	Restaurant	
	Development ¹	3
HFT 6227	Hospitality	
	Management	
	Training Systems ¹	3
HFT 6246	Organizational	
	Behavior in the	
	Hospitality Industry	3
HFT 6296	Seminar in Hospitality	1
	Management	3
HFT 6446	Hospitality Industry	
	Organizational	
	Information Systems	3
HFT 6477	Financial Managemer	٦t
	for the	
	Hospitality Industry	3
HFT 6586	Research and	
	Statistical Methods	3
HFT 6697	Hospitality	
	Law Seminar	3
		24
Electives: (EO	00 and 6000 laval\2	15

Electives: (5000 and 6000 level)2

In place of the three following courses -HFT 5227, HFT 5476 (or HFT 5478) and one elective, the student may choose to complete HFT 6916 Hospitality Industry Project. 2Note: One of the electives must be HFT

6946 Graduate Internship (3 credits).

Course Descriptions

Definition of Prefixes and Suffixes FOS - Food Science: FSS - Food Service Systems; HFT - Hotel, Food,

F-Fall semester offering; S-Spring semester offering; SS- Summer semester offering

FOS 4201 Sanitation in Food Service Operation (3). The causes and prevention of food poisoning are stressed. Emphasis is placed on the current problems confronting the industry, with recent food developments as they relate to sanitation. Curriculum developed by the National Sanitation Foundation is included.

FSS 3221 Introductory Commercial Food Service Production (3) Provides an introduction to commercial food preparation, nutrition, standard product identification, storage, and supervisory

techniques in the area of food preparation. Course includes classroom instruction, demonstrations, and actual cooking experience. (F,S,SS)

FSS 3232 Intermediate Quantity Food Production Techniques (3). An advanced commercial food production course which provides the student with the opportunity to achieve competence and to develop techniques in the garnishing, pastry, serving, and convenience food areas. Prerequisite. FSS 3221 or equivalent. (F,S,SS)

FSS 3234 Volume Feeding Management (3). The facilities of various types of large quantity food operations are utilized to provide the student with both production and managerial experience. Students will be rotated through production stations and, as managers, will be required to plan menus, supervise preparation and service, handle customer relations, and keep accurate accounting records on the profit and loss phases of the operation. Staffing, merchandising, and cost control procedures are integral parts of the course. Prerequisites: FSS 3221 and FSS 3232. (F,S,SS)

FSS 3241 Classical Culsine (3). Provides an opportunity for students skilled in cookery to expand their knowledge of food preparation into the area of world-respected traditional dishes. The course includes lecture, demonstration, and actual preparation of classical dishes. The students will utilize conventional methods of preparation as well as convenience foods Prerequisites: FSS 3221, FSS 3232. FSS 3234.

FSS 3243 Basic Meat Science (3). Fundamentals of meat: quality yield, utilization of cuts, availability, costing, buying, inventorying, packaging, labor, and trends. (F.S)

FSS 4105 Purchasing and Menu Planning (3). Basic information on sources, grades and standards, criteria for selection, purchasing, and storage for the major foods, including the development of specifications Consideration of the menu pattern with particular emphasis on costing, pricing and the work load placed on the production staff. Item analysis and more chandising features are emphasized (5)

FSS 4245 Advanced Meat Science (3). An advanced course which considers the variable factors of meat, poultry and fish utilization. Emphasis is placed upon newer techniques in purchasing maximizing yields, and providing products in unique form. The use of TVP and other analogues is considered, as are the functions of the specialized commissary-type of meat processing plants. Guest speakers will be utilized, and field trips to protein processing plants will be made, to emphasize major points. Prerequisite: FSS 3243. (F,S)

FSS 4315 Institutional Food Service Management (3). This course brings together basic management techniques and controls that are useful in the area of institutional feeding programs. Federal and state government regulations are studied. Special emphasis is given to hospital food service direction and the National School Lunch Program.

FSS 4431 Food Facility Layout and Design (3). Defines and explains concepts, principles, and procedures in evaluating and/or developing varied commercial food service facilities that will increase profit by reducing investment and operating cost and/or by increasing capacity. Actual installations are intensively reviewed. Current trends in food service methodology and technology are studied in detail, and food service equipment manufacturing processes and distribution economics are observed and evaluated. (F,S)

FSS 4614 Food and Beverage Merchandising (3). This is an application of marketing and advertising principles to the specific area of food and beverage for hotels and restaurants. (F.S)

FSS 5361 Advanced Food Service Operation (3). A senior course designed to coordinate the various management functions covered in previous courses into a comprehensive approach to profitable food service operations.

FSS 6106 Purchasing and Menu Planning (3). Advanced information on sources, grades and standards, criteria for selection, purchasing and storage for the major foods, including development of specifications. Consideration of the menu pattern with particular emphasis on costing, pricing, and the work load placed on the production staff. Item analysis and merchandising features are emphasized. (S)

FSS 6365 Food Service Systems (3). Principles of system analysis applied to the food service industry. Attention is given to the organization of modern food production, preparation, and distribution systems. Case study problems require application of economic and management principles for solution.

FSS 6452 Advanced Food Service Design Operations (3). Advanced planning, programming, and project documentation for commercial food service facilities. Spatial, environmental, and electro-mechanical design factors are stressed, with particular emphasis on efficiency modulation and investment aspects. Recommended: HFT 3343 or FSS 4431.

FSS 6834 Food Service Research (3). The planning, executing, and reporting of an individual research project dealing with significant problems in lood service. Students demonstrate an understanding of research techniques through data collection, evaluation, and interpretation.

HFT 3000 Introduction to Hospitality Management (3). A survey course providing an overview of the industry: its history, problems, and general operating procedures. Operating executives from the fields of hotel, restaurant, lood service, travel, and tourism will be featured periodically. (F,S)

HFT 3203 Fundamentals of Management in the Hospitality Industry (3). A basic course in general management to acquaint the student with theories and principles of organization, the tools of managerial decision-making, and the management process, with particular relevence to the hospitality industry. (F,S)

HFT 3263 Restaurant Management (3). An analysis of the principal operating problems in the restaurant field. Procedures, approaches, and techniques of management are explored and developed as they relate to the various categories of restaurants ranging from fast food to gourmet. Industry leaders will present successful concepts of restaurant operation. (F.S)

HFT 3313 Hospitality Property Management (3). The problems of cost and operation of pest control, security, parking, general cleaning and upkeep, laundry, fire prevention, pools, tennis courts, and care of guest rooms and public space, with emphasis on equipment, personnel, and modern innovations.

HFT 3323 Physical Plant Management (3). A comprehensive survey of engineering, maintenance and efficiency control in hotels, restaurants, and institutions. (F,S,SS)

HFT 3343 Hotel and Restaurent Planning and Design (3). Considers analysis, evaluation, and scheduling of the economic, technical, aesthetic, and merchandising factors involved in the planning, programming and design stages of hotels and restaurants. Actual hotel and restaurant projects will serve as the basis for discussion and student project work.

HFT 3344 Fast Food Systems
Management (3). A study of
management systems in a wide range of
fast food restaurants, including site
criteria, design and layout, operations,
marketing techniques and cost controls.
(F)

HFT 3403 Introduction to Management Accounting for the Hospitality Industry (3), Introduction and practice in accounting processes, and the principles of hospitality management accounting. Prepares the student for work in advanced accounting and financial management. Required for students who have not completed an introductory accounting course. (F,S,SS)

HFT 3423 Introduction to Hospitality Information Systems (3). An introduction to the general concepts and equipment that support information management by computer within the Hospitality Industry. Data field handling and other information management techniques are stressed. Students are first required to write application programs, then to complete a series of assignments utilizing application programs relating to guest cycle management on the school's computerized property management system. (F.S.SS)

HFT 3434 Club Operations
Management (3). Lecture, discussion,
case studies, and field trips specifically
designed to expose the future club
manager, golf professional, and turf
manager to club operations. Introduction
to the uniform system of accounts for
clubs, annual club studies for operating
results, control systems, taxation,
budgeting, and management reports.
(FS.SS)

HFT 3453 Operations Control (3). Study of the management tools available to control sales and expenses within hospitality operations. Detailed analysis of the responsibility centers using a cost managing approach. Case problems provide the students the opportunity to develop control systems for lood and lodging organizations. Prerequisite: HFT 3403 (F.S.SS)

HFT 3454 Food and Beverage Cost Control (3). Fundamentals of food and beverage cost controls for hotel and restaurant operations. (F,S,SS)

HFT 3503 Marketing Strategy Phase I (3). Application of marketing principles to business operations within the hospitality industry, with particular emphasis on viewing marketing as a competitive strategy in domestic and international markets. (F,S,SS)

HFT 3505 Hospitality Buyer Behavlor (3). An analysis of influences on buyer and the process involved in their purchase of hospitality services and the implications for marketing-strategy design and execution. Prerequisite: HFT 3503 or equivalent.

HFT 3514 Marketing Strategy Phase II
(3). Consideration of all aspects of the advertising element of the promotion mix to execute the corporation's or tourist destination's marketing strategy. Prerequisite: HFT 3503. (F.S)

HFT 3524 Sales Management for the Hospitality Industry (3). The course focuses on organizing sales and servicing effort and executing marketing strategy by developing sales strategies, plans and tactics for hospitality corporations and tourist destinations. Special emphasis is placed on group markets and gaining travel retailer support for destinations, hotel corporations, and cruiselines. The course may be followed by a sales management intemship. Prerequisite: HFT 3503. (F)

HFT 3603 Law as Related to the Hospitallty Industry (3). A basic course in hotel, motel, and restaurant law. The student is introduced to the fundamental laws, rules, and regulations applicable to the hospitality industry. The case study approach is used to develop an awareness and understanding of the legal problems confronting the executive in his policy and decision making role. (FS)

HFT 3700 Fundamentals of Tourism (3). An introduction to the broad fields of ravel and tourism. Among the topics covered are cultural tourism, sociology of tourism, tourism components and supply tourism development, the economic role of tourism demand, and the marketing of tourism. (F,S,SS)

HFT 3713 International Travel and Tourism (3). An introduction to the complete international scope of travel and tourism. A brief analysis of regional framework and specific regions of the world, the interrelationship between human society and the physical environment. Tourism as a factor in economic development and its cultural and sociological factors are explored. An analysis of the international organization of tourism and the facilitation procedures required for its successful implementation are highlighted. (S)

HFT 3722 Retail Travel Agency Management (3). An introduction to the basic operations aspect of travel agency management. The application of fundamental principles and successful practices in developing a satisfied clientele.

HFT 3727 Technical Agency
Operations (3). Comprehensive,
detailed course covering the technical
procedures, practices and systems of
day-to-day travel management, the
counselling, sales and personal
relationships with clients, hotels, tour
agencies, and transportation systems.
Pereguisite: HFT 3722.

HFT 3733 Creative Tour Packaging (3). A thorough study of the functions of the wholesale tour operation. Includes tour operations and development, sales methods used in selling group business, costing and contracting of group business, and in-depth study of the promotional aspects of tour packaging. (S)

HFT 3753 Convention and Trade Show Management (3). A course concentrating on organizing, arranging and operating conventions, trade shows, and concessions. Emphasis will be placed on the modes and methods of sales used in booking conventions and trade shows, as well as the division of administrative responsibility in their operation. (F.S)

HFT 3763 Passenger Traffic Management (3). A survey of land, water, and air transportation from an integrated, intermodal frame covering organization, operations, linancing, research, regulation, economics, and certain social and political factors; as well as contributions made by each mode to the development of tourism.

HFT 3793 Sociology of Leisure (3) An introduction to the fundamental, psychological and sociological concepts and theories as they relate to the motivation behind travel and tourism (SS)

HFT 3871 Beverage Management (3). An introduction to the identification, use and service of wines and other alcoholic beverages, with an in-depth analysis of the various elements of beverage operations including purchasing, control, morchandising, and bar management. Field trips are made to hotels and restaurants to demonstrate salient operating principles. (F,S)

HFT 3872 Wine Technology, Merchandising, and Marketing (3). A course in the fundamentals of wine technology (viticulture and vinitication methods). The major types of wine and the factors influencing their quality; principles of sensory evaluation; wine merchandising and marketing. (F,S)

HFT 3900, 3905 Independent Studies (VAR). With permission from the Associate Dean, students may engage in independent research projects and other approved phases of independent study. (F,S,SS)

HFT 3941 Internship in Hospitality Management (3). Experience in all the major phases of hospitality operations. Reports are required. (F,S,SS)

HFT 3945 Advanced Internahlp In Hospitality Management (3). Structured management experience in a specialized career in the hospitality industry. Programs include: food and beverage management, rooms division management, sales management, inflight catering management, fast food service management, and restaurant management. Structured management experience with an airline, a travel agency, a four operator, or a cruiseline. Report required. (F.S.SS)

HFT 4223 Human Resources
Development in the Hospitality
Industry (3). A course designed to
provide specific applications of proven
training systems and methods for
managers in the hospitality industry. The
case study method will be used. (F,S)

HFT 4224 Human Relations in the Hospitality Field (3). The problems laced by the supervisor and the executive in managing the human element in the hospitality field. Designed to give the student insight into the varied social and psychological factors present in any employee-employer relationship (F,S)

HFT 4234 Unlon Management Relations in the Hospitality Industry (3). A comprehensive course covering labor legislation, union history, and the day-to-day administration of the labor contract. Emphasis is placed on collective bargaining and the business relationships botween union and management. (F,S)

HFT 4276 Resort Management (3). A course designed to focus on the unique problems of resort hotel management and the application of special techniques to meet those problems.

HET 4293 Restaurant Management Seminar (3) By permission of instructor only A senior course reviewing current problems and practices, developing policies and procedures, and implementing same. (F)

HFT 4295C Catering Management (3). A study of the techniques, logistics, and responsibilities involved in the management of on-premise and offpremise, and catering companies. Prerequisites: FSS 3221 and HFT 3263. (5)

HFT 4404 Business and Industry Food service Management (3). Management systems, methods, and procedures related to the operation of lood service and vended food service in plants and factories, office buildings, schools and colleges, and health care facilities. Both company and contracted operations. (F)

HFT 4405 Recreational Food Service Management (3). Methods and systems of managing food service operations in recreational facilities, such as stadiums and coliseums, amusement parks, mutual (betting) facilities, state and national parks, and other recreational areas. (S)

HFT 4413 Lodging Systems and Procedures (3). Detailed study of methods used in serving guests of a hotel. Contrasts traditions with modern systems. Extensive use of H.I.S. software with IBM PC-XT demonstrates "state-of-art" concepts. Prerequisite: HFT 3423. (SS)

HFT 4445C Hotel Computer Systems (3). A seminar on computer systems within the hotel industry. An intensive study of a computerized property management system. All computer applications are examined from reservations to the back office through a series of assignments and projects. Prerequisites: HFT 3423 and permission of instructor. (F,S)

HFT 4455 Functions of the Hospitality Industry Comptroller (3) A specialized course designed for students desiring strong emphasis and training in the complex accounting and finance functions of hospitality industry management. Prerequisite: HFT 3453.

HFT 4464 Interpretation of Hospitality Industry Financial Statements (3). Indepth study of hospitality industry financial statements including consideration of the significant relationships between the various accounts found on financial reports. The statement of changes in financial position is studied, emphasizing funds as a means of payment. Major emphasis is placed upon trend analysis, ratio analysis, and comparison analysis using

hospitality industry annual studies. Prerequisite: HFT 3453. (F.S.SS)

HFT 4474 Profit Planning and Decision-Making in the Hospitality industry (3). Study of the decision-making process involved in the development of profit plans through analysis of hospitality industry studies. The establishment of short and long term goals and the means to reach these goals through profit plans. Emphasis on pricing decisions, responsibility centers, variance analysis, cost-volume profit analysis, capital budgeting, and tax considerations. Prerequisite: HFT 4464. (F,S.SS)

HFT 4485 Seminar in Tax Planning for the Hospitality industry (3). Develops tax awareness and the ability to recognize the possible tax implications of business decisions. Tax considerations are studied for existing, expanding and planned hospitality operations. Included are compensation plans, pension and profit sharing plans, depreciation methods, acquisitions, mergers, liquidations, organization structure, accounting methods and capital gains and losses. Prerequisite: Permission of the instructor.

HFT 4493C Food Service Computer Systems (3), Study of computer systems in restaurant industry. The student is required to implement a simulated restaurant. This simulation includes personnel files, daily management, menu explosion and analysis, and inventory tracking. In addition, a research project will be assigned. Prerequisites: HFT 3423 or HFT 6646 and permission of instructor. (F.S.)

HFT 4512C Hospitality Promotion Strategy (3). This course deals with the practical aspects of designing and implementing a hospitality advertising, public relations, and promotional program. Planning, budgeting, media, and campaign creation will be studied. (S)

HFT 4604 LegIslation and the Hospitality Industry (3). A study of the legislative requirements imposed upon hospitality industry operators. Special emphasis is placed on the minimum wage law, sales tax, uniform provision and maintenance, tip credit, and the determination of what constitutes hours worked for the various job categories, discrimination, and sexual harassment. Prerequisite: HFT 3603. (F,S,SS)

HFT 4718 Implementation and Management of Tourism Projects (3). Practical development, implementation, and management of tourism projects and programs with emphasis on international and developing nation situations. Prerequisites: HFT 3700 and HFT 3793 or equivalent. (S)

HFT 4880 in-Flight Food Service Management (3). An introduction to the concepts and managerial techniques specifically related to the in-flight food service segment of the hospitality industry. Students will be exposed to a comprehensive study of contract purchasing, contract negotiations. system menu planning, volume food production, staff scheduling, industry pricing methods, product specification factors, client and employee relations, and security control systems; and familiarized with specific and specialized food service equipment, equipment routing and balance, and transportation methods and procedures. (F)

HFT 4936 Hotel Management Seminar (3). A senior course reviewing current problems and practices, developing policies and procedures, and implementing same. Prerequisite: Permission of instructor, (F)

HFT 5476 Feasibility Studies for the Hospitality Industry (3). A survey of various theories and techniques available by which management may determine the financial feasibility of investments in the hospitality field. Prerequisites: HFT 3503 and HFT 4474. (5,SS)

HFT 5478 Restaurant Development (3). A study of the procedures to research and develop a restaurant form concept to opening. Emphasis will be on market research, site development, financial feasibility, and the formulation of an operating plan for an individual restaurant. Prerequisites: HFT 3503 and HFT 4474. (F,S)

HFT 5495 SemInar In Hospitality Industry Financial Management Systems (3). Visits to various hospitality businesses for seminars with management team members. Lectures, demonstrations, and discussion of each operation's methods and procedures, with emphasis on accounting and control systems. Prerequisite: Permission of the instructor.

HFT 5595 Problema in Marketing (3). Team-work analysis and recommended solution of an actual marketing problem which has been posed by a local operator. Prerequisite: HFT 3503. (F)

HFT 5655 Franchising and Management Contracts (3). A comprehensive course designed to examine the franchise/franchisor owner/manager relationships in hotel and food service operations and the mutual obligations created by each type of contract. Prerequisite: HFT 3603(F.S.SS)

HFT 5718 Quality Controls in Tourism (3). A study of contemporary social and human factors which influence actions and interactions between consumers and producers in tourism related industries. Prerequisite: HFT 3700. Corequisite: HFT 3722 or HFT 3753.

HFT 5719 Implementation and Management of Tourism Projects (3). Practical development, implementation, and management of tourism projects and programs with emphasis on international and developing nation situations. Prerequisites: HFT 3700 and HFT 3793 or equivalent. (S)

HFT 5901, 5906, 5911 Independent Studies (VAR). With permission from the Associate Dean, students may engage in independent research projects and other approved phases of independent study. (F.S.SS)

HFT 6225 Multicultural Human Resources Management for the Hospitality Industry (3). A study of personnel and consumer relations in the hospitality industry within a multicultural, multiracial, and multiethnic society through an examination of value systems and cultural characteristics. Prerequisite: HFT 4224 or equivalent. (F,S)

HFT 6226 Motivation and Leadership (3). Study of motivation, perception, learning, attitude formation, incentive theory, and job satisfaction, with emphasis on leadership and group task performance. (S)

HFT 6227 Hospitality Management Training Systems (3). A course designed to provide applications of proven training systems and methods for managers in the hospitality industry. The case study method will be used. (F,S)

HFT 6246 Organizational Behavior in the Hospitality industry (3). A survey of the concepts of organizational behavior and industrial psychology theory, from both the research and practical points of view. The course is designed to assist students in making sound decisions in the hospitality area by making thom sensitive to the organizational parameters which influence their decisions. (S)

HFT 8256 International Hotel
Operations (3). A consideration of various environments within which the

international hospitality firm operates. Organizational, financial, and marketing factors are of major concern. Emphasis is placed on those problems and constraints which are uniquely different from problems of firms engaged in domestic operations of a similar nature.

HFT 6286 The Organization and its Environment (3). A study of the hospitality industry as it is affected by its environment and in turn attempts to influence the various elements in this environment.

HFT 6296 Seminar in Hospitality Management (3). Attention is focused on major problems facing management in today's economy. Special emphasis is placed on the food service industry. Research of the current literature, class analysis, and discussion. (F,S)

HFT 6297 Seminar in Management Methods (3). Class will be divided into small groups, each of which will meet regularly with the executive committee of an area hotel or restaurant. Each group will be, in reality, the junior executive committee for the property. The groups will come together periodically for analysis and discussion of their experiences, and to relate their experiences to principles of modern management. (FS)

HFT 6444 Hotel Information Systems (3). A seminar on computer systems and their applications within the hotel industry. An intensive study of a computerized property management system. All computer applications are examined, from reservations to the back office through a series of assignments and projects. Prerequisites: HFT 3423 or HFT 6446 and permission of instructor. (F.S)

HFT 6446 Hospitality Industry
Organizational Information Systems
(3). An introduction to the general
concepts and equipment that support
information management by computer
within the Hospitality Industry. Data file
handling and other information
management techniques are stressed.
Students are first required to write
application programs, then to complete a
series of assignments utilizing
application programs relating to guest
cycle management on the school's
computerized property management
systom. (F,S)

HFT 6456 Operations Control (3). Focus is directed to the information used in the decision process and the information flow associated with each decision process throughout hotel or restaurant enterprises. HFT 6477 Financial Management for the Hospitality industry (3). A study of the principles of financial management and their application to the hospitality industry. Discussion and case studies are used to develop plans for meeting financial needs (short, intermediate, and long term) from internal sources or capital markets. Attention is focused on capital budgeting, leasing, franchising, mergers, consolidations, and current financial issues in the hospitality industry. Prerequisite: HFT 6446. (F,S)

HFT 6486 Investment Analysis for the Hospitality Industry (3). Advanced investment methods and opportunities with emphasis on securities of the hospitality industry, financing techniques, syndication, negotiations.

HFT 6487 Taxatlon Federal and State (3). A study of state and federal taxation concepts, including tax management lor individuals, partnerships, and corporations engaged in the hospitality field.

HFT 6494 Restaurant Information Systems (3). An in-depth study of principles relating to use of computer systems in the restaurant industry. The student is required to implement a simulated restaurant on two computer systems maintained by the school. This simulation includes personnel files, daily management, menu explosion and analysis, and inventory tracking. In addition, a research project will be assigned. Prerequisites: HFT 3423 or HFT 6446 and permission of instructor. (F,S)

HFT 6586 Research and StetIstIcat Methods (3). A study of basic research methodology as applied to a variety of hospitality industry research projects. Techniques for data collection and interpretation, and methods of reporting are considered. (F,S)

HFT 6596 Marketing Management (3). Team-work analysis and recommended solution of an actual marketing problem which has been posed by a local operator

HFT 6605 Legislation and the Hospitality Industry (3). An advanced study of the legislative requirements imposed upon hospitality industry operators. Special emphasis is placed on the minimum wage law, sales tax, uniform provision and maintenance, tip credit, the determination of what constitutes hours worked for the various job categories, discrimination, and sexual harassment. Prerequisite HET 3603 (FS.SS)

HFT 6697 Hospitality Law Seminar (3). New laws and their impact on the hospitality industry are examined. Students research and publish 'industry alert bulletins,' explaining the impact of new legislation on the hospitality industry. Prerequisite: HFT 3603 or equivalent. (F,SS)

HFT 6916 Hospitality Industry Project (3-9). An individualized research project dealing with current problems in the hospitality industry. Topics and research methods must be approved by the graduate faculty before registration for the course. (F,S,SS)

HFT 6946 Graduate Internship (3). Structured graduate management experience in a specialized career in the hospitality industry. Programs include: lood and beverage management, rooms division management, sales management, in-flight catering management, fast lood service management, and restaurant management. Prerequisite: Permission of the instructor. (F.S.SS)

School of Hospitality Management

Dean Anthony G. Marshall
Associate Dean Rocco M. Angelo

Faculty

- Angelo, Rocco M., M.B.A. (University of Miami), Associate Professor, Management and Associate Dean
- Beck, Robert A., Ph.D. (Cornell University), Distinguished Scholar in Residence, Finance and Management
- Bellucci, Ello, J.D. (Boston College), Associate Professor, Law
- Berkowitz, Leonard, B.A. (University of Maine), Lecturer, Meat Sciences
- Burritt, M. Chase, B.S. (Cornell University), Visiting Assistant Professor, Accounting
- Cassidy, Patrick, B.S. (Florida International University), Visiting Lecturer, Wine Technology
- Dean, Edwin, Lecturer, Union/Management Relations
- Deveau, Patricia M., M.S. (University of New Haven), Assistant Professor, Information Systems Management
- Dickson, Lee C., M.B.A. (Babson College), Associate Professor, Management
- Goffe, Peter, M.S. (Cornell University), Associate Professor, Marketing
- Gregg, Joseph B., M.S. (Bridgewater State), Associate Professor, Management and Marketing

- Grier, David, Instructor, Beverage Management
- Hagenmeyer, Fritz, G., M.A. (Cornell University), Associate Professor, Hotel Engineering
- Haleblian, Albert J. B.S. C.P.A. (Cornell University), Associate Professor, Accounting and Finance
- Haverly, Frederick, B.S. (Cornell University), Lecturer, Management,
- Hurst, Michael E., M.A. (Michigan State University), Professor, Management
- Huse, Richard A., M.S. (Niagara University), Associate Professor, Tourism
- ilvento, Charles L., M.B.A., C.P.A. (Cornell University), Associate Professor, Accounting and Finance
- Kobasky, Michael, Ph.D. (Florida State University), Director of Student Affairs
- Kotschever, Lendal, Ph.D. (Columbia University), Professor, Management
- Marshall, Anthony G., J.D. (Syracuse University), Professor, Law and Dean
- Moll, Steven V., M.S. (Florida International University), Associate Prolessor, Accounting and Information Systems Management
- Moncarz, Elisa, B.B.A., C.P.A. (Bernard/Baruch College, City U. of New York), Associate Professor, Accounting and Finance
- Morgan, William J., Jr., Ph.D. (Cornell University), Professor, Management
- Nichols, Charles, Lecturer, Food Management
- O'Brien, William, M.S. (Florida International University), Assistant Professor, Information Systems Management
- Parker, Alan J., Ph.D. (Columbia University), Professor, Information Systems Management
- Portocarrero, Nestor, B.B.A. C.P.A. (University of Miami), Associate Professor, Accounting and Finance
- Probst, Roger, B.S. (University of New Haven), Lecturer, Food Management
- Ringstrom, Norman H., Ph.D. (State University of Iowa), Professor, Management
- Robson, Kevin, M.S. (Florida International University), Associate Professor, Food Management
- Stanford, William, Lecturer, Food Management

- Talty, David M., B.S. (Florida State University), Visiting Assistant Professor, Management.
- Tanke, Mary L., Ph.D. (Purdue University), Assistant Professor, Management
- Viadimir, Andrew, M.S. (Florida International University), Visiting Assistant Professor
- Warner, Mickey, M.S. (Florida International University), Associate Professor, Food Management
- White, Theodore, B.S. (Florida International University), Lecturer, Club Management

School of Nursing

School of Nursing

The School of Nursing offers a professional program of study leading to the degree of Bachelor of Science in Nursing (BSN).

The School is accredited by the National League for Nursing and is approved by the Florida State Board of Nursing. It is open to generic and R.N. students. Upon graduation, generic students are eligible to write the State Board examination to become registered nurses.

The School also offers a certificate program in Advance Nursing Practice in Adult Health. This program qualifies the student to apply for ARNP licensure in Florida.

Program Objectives

Upon completion of the program, graduates will be able to:

- Synthesize knowledge from the natural and the behavioral sciences, the humanities and nursing in the provision of nursing care to clients throughout the life span.
- Analyze research findings from nursing and other disciplines to improve and change nursing practice.
- Evaluate nursing theories and concepts from other disciplines as a base for nursing practice.
- Utilize the nursing process to promote, maintain and restore health and rehabilitate, and prevent illness of individuals, families and communities in a changing multicultural, global society.
- Analyze legal, ethical, social, political, and economic forces which impact on the emerging role of the professional nurse.
- Collaborate with members of the health care team in the delivery of individualized, economic and ethical health care services with accountability and responsibility for own practice.
- 7. Utilize creative leadership to promote quality health care in a changing, multicultural, global society.
- Value learning as a lifelong process through independent pursuit of personal and professional growth.

Degree: Bachelor of Science In Nursing (BSN)

Admission Requirements

Applicants to the School of Nursing must submit an Application for Admission to the University and must follow the regular University procedures. Applicants must be admitted to the University before admission to the School. R.N. students must be licensed or eligible for graduate nurse (G.N.) status at the time of application, (Florida Statue 464.01)

All necessary admission documents must be submitted by April 1 of each year preceding the Fall Term admission or October 15 of each year preceding the Spring Term admission. Students interested in the nursing major should contact the School to make an appointment with an academic advisor as soon as possible. The School of Nursing is located on the North Miami Campus, telephone: (305) 940-5915. In addition, an RN-BSN completion program is offered at the Broward Center in Davie, telephone (305) 948-6747 (Miami number), or (305) 474-1402 (Broward number)

To be admitted to the program, applicants must have an overall GPA of 2.5 or higher, have met all the lower division requirements including CLAST, completed sixty semester hours, and be recommended for admission by the Nursing Admission Committee. The nursing program is selective. Limitations are set on enrollment on the basis of availability of qualified faculty, classroom and laboratory facilities, and clinical resources for student experiences.

Lower Division Preparation

The following courses are required for admission to the nursing major:

1.	Introduction to Statistics	3
2.	Natural Sciences:	
	Chemistry	5-8
	Human Anatomy/Physiology	6-8
	Microbiology	4
3.	Social Science:	
	Introductory Sociology	3
	Introductory Psychology	3
	Language Elective	3-5
4.	Nutrition	3
5.	Human Growth & Developmen	t 3

Scholastic Requirements: To remain in good academic standing students must:

 Maintain an overall cumulative GPA of 2.25 or higher.

- 2. Achieve a grade of 'C' or higher in the science and nursing courses. A student who earns less than a 'C' in any nursing course will be required to repeat the course in order to progress in the nursing program. A student may repeat the course one timo only. No more than two nursing courses can be repeated in order to remain in the program.
- Required Examinations: In addition to the University requirements (CLAST), the School requires also the following:
- a. RN's are required to complete selected equivalency examinations. (See RN - BSN Guidelines).
- b. Generic students are required to pass specific nursing achievement examinations (To be announced at the beginning of each academic term). In addition, generic students are required

to pass also a nursing synthesis (exit) exam as a prerequisite to the BSN degree. (This examination is usually given during the last semester of the program in the Senior Seminar courses.)

c. For educational research purposes, certain standardized examinations may be administered at selected points in the nursing curriculum

4. The School reserves the right to terminate a student from the nursing program for reasons related to the inability to safely carry out professional responsibilities.

Note: The programs, policies, requirements, and regulations listed in this catalog are continually subject to review in order to serve the needs of the University's various publics and to respond to the mandates of the Florida Board of Regents and the Florida Legislature. Changes may be made without advance notice. Please refer to the General Information section for the University's policies, requirements, and regulations.

Required Nursing Courses: Junior Year

Semester		
NUR 3118C	Approaches to Nursing I	6
NUR 3066C	Approaches to Nursing IB	3
NUR 3825	Professional Nursing I	2
NUR 3145	Pharmacology	2
Semester II		
NUR 3255C	Approaches to Nursing IIA	4
NUR 3534C	Approaches to Nursing IIB	3
NUR 3826	Professional Nursing II	2
NUR 3125	Pathophysiologic Basis	_
- /	of Nursing	3
Semester III		
NUR 3259C	Approaches to Nursing IIIA	4
NUR 3538C	Approaches to	7
	Nursing IIIB	3

Senior Vear

Professional

2

Nursing III

NUR 3115

Elective

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Semester I		
NUR 4457C	Approaches to	
	Nursing IVA	
NUR 4357C	Approaches to	
	Nursing IVB	
NUR 4165	Professional	
	Nursing IV	
lective	-	

ARNP Certificate Program in Adult Health

A student who has earned a BSN degree and is a registered nurse in Florida may be considered for admission to the ARNP certificate program. The student must meet the University requirements and must have completed one year of nursing experience. Admission requirements are (1) a BSN degree, which includes a physical assessment course; (2) 3.0 GPA or individual determination; (3) current RN licensure and CPR certification; and (4) a physical examination including measte titre.

Before starting the admission process, the RN is encouraged to make an appointment with a nursing academic advisor to determine his or her status. The student is encouraged to bring a personal copy of all transcripts of previous college courses to assist in the advisement process. An appointment can be made by calling 940-5915.

Completion of the certificate program will qualify the student to apply for ARNP licensure in Florida. This is a full time nursing program that requires a minimum of twenty four hours per week in addition to study time. The certificate is designed to be completed in two academic terms. Classes are held one late afternoon and early evening each week. Field work times are flexible.

A minimum of 30 credit hours must be earned to received the certificate.

Required Courses: (31 semester hours)

First Semester
NGR 5113
Theoretical Foundations
of the Expanded Role
of Nurse
NGR 5145
Psycho/Physiologic
Basis of Advanced
Nursing I 12

Second Semester NGR 5740 Theoretical Foundations

Advocate Role of Nurse
Practioner 2
NGR 5146 Psycho/Physiological
Basis of Advanced
Nursing I 3
NGR 5745 Case Management
Preceptorship in
Advanced Adult Health

of Teacher / Manager /

Nursing 7
Electives: Courses in Nursing, Computer, Health Services Administration, Psychology, etc. 3

Required Courses: Please consult the Department

Course Descriptions Definition of Prefixes

NGR - Nursing Graduate; NUR - Nursing Practice and Theory

NUR 3066C Approaches to Nursing I B: Client Assessment (3). The assessment and evaluation of alterations in physiologic adaptive responses of the adult/gerontological client to stressors are emphasized. Prerequisite: Admission to major. Corequisite: NUR 3118C.

NUR 3118C Approaches to Nursing I (6). Introduction to the Nursing Process and Nursing Care of individuals throughout the life span within the health-illness continuum with special focus on the promotion of optimum wellness. Prerequisite: Admission to the program. Corequisite: NUR 3825.

NUR 3125 Pathophysiologic Basis of Nursing Practice (3). The body's adaptive responses to selected physical, chemical, and biological stressors are presented as a base for nursing diagnoses, interventions, and evaluations. Prerequisites: NUR 3145, NUR 3066, NUR 3118C. Corequisites: NUR 3259, NUR 3538.

NUR 3145C Phermacologic Basis for Nursing Practice (2). Focus is on clinical pharmacology including development and control of drugs and drug therapies, general principles or specific drug actions and the body's physiologic response to drug administration. Prerequisite: NUR 3118C, NUR 3066. Corequisites: NUR 3255, NUR 3534

NUR 3255C Approaches to Nursing II A: Adult/Gerontological Physiological Nursing I (4). The nursing process is applied in assisting the adult/gerontological client with minimally to moderately impaired physiological adaptive responses. Preroquisites: NUR 3118C, 3066, 3825 Corequisites: NUR 3626, NUR 3145

NUR 3259C Approaches to Nursing III A: Adult/Gerontological/Physiological (4). The nursing process is applied in assisting adult/gerontological clients with moderate to severe adaptive alterations or terminal conditions, including the effects of lamily Prorequisites: NUR 3255, NUR 3826 Corequisites NUR 3538, NUR 3827

NUR 3534C Approaches to Nursing IIB: Psychiatric/Mental Health Nursing (4). Application of the Nursing Process to the care of individual, families, and groups within the health-illness continuum with special focus on changing psychosocial situations. Prerequisites: NUR 3118C, NUR 3825. Corequisites: NUR 3137, NUR 3137L, NUR 3826.

NUR 3538C Approaches to Nursing III B: Adult/Gerontological Pursing II (3). The nursing process is applied in assisting the adult/gerontological client and his family with moderately to severely impaired psychological responses. Prerequisites: NUR 3534, NUR 3826. Corequisite: NUR 3559, NUR 3827.

NUR 3825 Professional Nursing I: Socialization (2). Socialization into the role of professional nursing is introduced. The teaching-learning process is explored with emphasis on the students' responsibilities as an independent learner. Prerequisite: Admission to the program. Corequisite: NUR 3118C.

NUR 3826 Professional Nursing II: Legal, Ethical and Cultural Consideration (2). This course continues to address professional dimension in nursing. Emphasis is on legal, ethical, and cultural considerations using group dynamics. Prerequisites: NUR 3118C; PCB 4496; NUR 3825. Corequisite: NUR 3137.

NUR 3827 Professional Nursing III: Leadership (2). This course is designed to provide a forum for students to analyze and critique the leadership role of the professional nurse in a variety of health care settings within a multicultural, changing global society Prerequisities: NUR 3538, NUR 3356.

NUR 4075 Transcultural Issues and the Nurse (2). The course is designed to guide the student into direct relationships with individuals of ethnic and racial differences, and to facilitate the development of a therapeutic relationship

NUR 4165 Professional Nursing IV: Research (3), interrelationship of problems solving, decision making, change and the nursing process are explored in identifying the role of the professional nurse as research consumer. Prerequisite. NUR 3125

NUR 4357C Approaches to Nursing IV B: Childrearing (4). The nursing process is applied in assisting childrearing families exhibiting

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moderately to severely impaired adaptive responses. Prerequisites: NUR 3538, 3259. Corequisite: NUR 4457.

NUR 4432 Approaches to Nursing V: Community Nursing (4). Building upon all professional roles of the nurse, synthesis and evaluation of the nursing process is utilized in assisting individual families and communities in a primary setting. Prerequisites: NUR 4357, 4457, NUR 4165. Corequisite: NUR 4895.

NUR 4457C Approaches to Nursing IV A: Childbeering (4). The nursing process is applied in assisting childbearing families exhibiting moderately to severely adaptive alterations. Prerequisites: NUR 3538, 3259, NUR 3827. Corequisite: NUR 4357.

NUR 4496 Women's Health Issues (3). This course is designed to acquaint the student with selected conditions impacting the health of women.

NUR 4636C Approaches to Nursing VI: Community Health Nursing (4). Evaluation of the nursing process to the care of individuals, families, and groups within the health-illness continuum with special focus on the community and health care systems. Prerequisites: NUR 4165; NUR 4424. Corequisite: NUR 4945.

NUR 4895 Professional Nursing V: Senlor Seminar (2). Professional issues related to nursing as an autonomous professional practice are investigated. Focus is on the transition from student to beginning generalist nurse role. Prerequisite: NUR 4457, NUR 4357, NUR 4165. Corequisites: NUR 4945, NUR 436C.

NUR 4945L Approaches to Nursing VII: Leedership Practicum (4). Transition from student to graduate role is provided through leadership experience in an elected setting which allows synthesis of knowledge, skills, and understandings. Assessment of nursing care modalities are emphasized Prerequisites: NUR 4165; NUR 4424. Corequisite: NUR 4636C.

NUR 4947 Directed Field Experience in Nursing (3). Application and refinement of nursing in a clinical specialty area. Prerequisites: Florida RN and permission of instructor.

NGR 5113 Theoretical Foundations of the Expanded Role of the Nurse (3). A didactic course on expanded role realignment, legal-ethical implications of ARNP role, interviewing and communication skills and extant nursing models. Prerequisite: Florida RN with BSN. Corequisite: NGR 5145.

NGR 5145 Paycho/Physiologic Besis of Advanced Nursing I (12). A multidisciplinary didactic course integrating the nursing process and the relevant sciences as a basis for advanced nursing practice. Directed field clinical practicum on implementing the expanded nurse role in a specific setting. Prerequisite: Florida RN with BSN. Corequisite: NGR 5113.

NGR 5146 Paycho/Physiological Basis of Advanced Adult Nursing II (3). An advanced multidisciplinary didactic course integrating the nursing process with related sciences as a basis for advanced nursing practice. Prerequisite: Florida RN with BSN. Corequisites: NGR 5740 and NGR 5745.

NGR 5740 Theoretical Foundations of the Teacher/ Meneger/ Advocate Role of the Nurse Practitioner (2). A workshop group presentation on problems related to the teacher/ manager/ advocate role of the adult nurse practitioner in a client setting. Prerequisites: Florida RN with BSN. Corequisites: NGR 5146 and NGR 5745.

NGR 5745 Cese Menegement Preceptorship In Advanced Adult Health Nursing (7). Advanced clinical case management preceptorship in adult geriatric family community or other selected speciality. Prerequisite: Florida RN with BSN. Corequisites: NGR 5740 and NGR 5146.

NGR 5905 Independent Study In Nursing (1-10). Individually determined, research oriented, in-depth study of a nursing problem or clinical experience as approved by the faculty preceptor. Prerequisites: BSN, permission of instructor, and admission to a graduate

NGR 5936 Special Topics in Nursing (1-6). Group study of a specific topic or a limited number of related topics in nursing. Prerequisite: Must be a nursing student or Florida licensed RN.

School of Nursing

Dean Linde Agustin Simunek

Faculty

- Belock, Shirley A., R.N., Ed.D. (Nova University), J.D. (University of Miami), Professor and Associate Dean
- Blels, Kathleen, R.N., Ed.D. (Florida Atlantic University), Assistant Professor Farris, Lorene, R.N., Ed.D. (University

of Miami), Professor

Hertley, Jecqueline, R.N., Ph.D. (Florida State University), Associate Professor

Krimsley, Velerie, R.N., M.A. (New York University), Assistant Professor

Lizardo, Meria Lourdes, R.N., ARNP, M.N. (University of the Philippines), Assistant Professor

Lober, Sendre, R.N., M.S.N. (Barry University), Instructor

Northrop, Celeate, R.N., D.N.Sc. (Catholic University of America), Assistant Professor

Phillips, Suzanne, R.N., M.S. (University of Utah), Assistant Professor

Sellen-Rush, Donne, R.N., ARNP, M.S.N. (University of Miami), Assistant Professor

Shah, Dephne, R.N., M.S.N. (Loma Linda University), Assistant Professor

Simunek, Linda Agustin, R.N., Ph.D. (Loyola University of Chicago), J.D. (University of Miami), Professor and Dean

Thornton, Rose N., R.N., MPH (Florida International University), Academic Advisor

School of Public Affairs and Services

School of Public Affairs and Services

The School of Public Affairs and Services offers programs of professional study which provide academic and applied courses for students interested in public and non-profit organizational needs, management, and research. Emphasis is placed on achieving a comprehensive, developmental, and community oriented understanding of problems, issues, alternatives, and needs of an urban society faced with rapidly changing social, political, economic, and cultural conditions.

The School is organized into the Departments of Criminal Justice, Health Services Administration, Public Administration, and Social Work. Each of these Departments offers both the baccalaureate and master's degrees. In addition, a Doctor in Philosophy (Ph.D.) is offered in Public Administration.

Admission

Applicants to the School must submit an Application for Admission to the University and must follow the regular University procedures. Applicants must be eligible for admission to the University before admission to the School.

Bachelor Degrees

Undergraduate Admission Requirements: Policies on admissions and prerequisites for the undergraduate programs are described in the appropriate departmental sections of this catalog.

Advisement: Each student is assigned a laculty advisor upon being admitted to a program and together they plan the student's program of study. Students needing pre-advisement should contact the specific department.

Clinical and Field Experiences: As an integral part of the program curriculum, the student may be provided supervised learning experiences in community service agencies. The clinical and field work experience is one of orientation, observation, and practice in the particular program specialty of Public Affairs and is structured concurrently with relevant classroom experiences. Numerous community organizations provide opportunities for student internships and field practices.

Continuing Education and Special Programs: The School of Public Affairs and Services, in cooperation with the Division of Continuing Education, offers many credit, non-credit, and workshop courses in Off-Campus locations in Dade, Broward, and Monroe Counties. Courses and locations vary each semester and the departments should be contacted for specific offerings.

Graduate Degrees

Graduate Admissions Requirements: Policies on admissions and prerequisites for the graduate programs are described in the appropriate departmental sections of this catalog. At a minimum, a student planning to enroll in one of the graduate degree programs in SPAS must:

- Meet the general University requirement for admission to a graduate program.
- Hold a bachelor's degree from a regionally accredited college or university.
- Meet the minimum requirements of a 3.0 GPA in upper-division grades or a minimum score of 1000 on the Graduate Record Examination entrance examination, or both.
- 4. In addition to the above, a foreign student whose native language is not English must present a minimum score of 500 on the TOEFL, or equivalent score on a comparable examination. See General Admissions Requirements for International Students in the General Information section of this catalog.

Degree Requirements: To be eligible for a master's degree within the SPAS, a student must:

- 1. Satisfy all University requirements for a master's degree.
- 2. Meet the requirements for an approved program of study. This program of study must be approved by the appropriate Department Director
- 3. Earn a minimum GPA of 3.0 in all work completed in the student's graduate program of study.
- 4. Earn a minimum grade of 'C' in all program courses to be eligible for graduation. A student must repeat all courses in which a grade of 'D' or 'F' was received, and earn minimum grades of 'C.'

Transfer Credit: The student may request and receive permission to transfer graduate credit to his or her master's degree program, provided that:

- The hours requested do not exceed the maximum hours allowed by the Department.
- 2. The transfer courses were taken at the graduate level at an accredited college or university.
- 3. Grades of `B' or higher were
- 4. The courses are judged by the Department Director to be relevant to the student's graduate program.

5. The credits are transferred the same semester the student is admitted to the graduate degree program.

 The credits were not used in satisfying the requirements for another degree, or included in another degree.

7. The credits were completed within six years preceding the admission to the graduate degree program.

Time Frame for Completion of Degree: All work applicable to the master's degree requirements, including transfer credit, must be completed within six years immediately preceding the awarding of the master's degree.

SPAS Graduate Level Courses: The 5000-level courses are open to graduate students and to undergraduate seniors with permission of the instructor.

The 6000-level courses are open only to graduate students.

The 7000-level courses are open only to doctoral students.

Note: The programs, policies, requirements, and regulations listed in this catalog are continually subject to review, in order to serve the needs of the University's various publics and to respond to the mandates of the Florida Board of Regents and the Florida Legislature. Changes may be made without advance notice. Please refer to the General Information section for the University's policies, requirements, and regulations.

Criminal Justice

W. Clinton Terry, Associate Professor and Acting Director
Robert Clark, Professor
Jose Marques, Associate Professor
Luls Salas, Professor
Dale Sechrest, Assistant Professor
Reglna Shearn, Associate Professor
Robert Snow, Associate Professor
Ray Surette, Associate Professor
William Wilbanks, Professor

Criminal Justice is an area of study dealing with the formal mechanisms of social control by which society exercises constraint over its members. The study of criminal justice is interdisciplinary, It involves law, the social and behavioral sciences, crime, the reaction of society to the crime problem, and the means utilized in treating it.

A variety of career opportunities are available in criminal justice at all levels of government and the private sector. Due to its interdisciplinary approach, the study of criminal justice lills the needs of students seeking careers in teaching, research, law, and within the various agencies of the criminal justice system.

Degree: Bachelor of Science

Lower Division Preparation
Students majoring in criminal justice
should consult with their academic
advisor to ensure that the courses they
selected meet program and degree
requirements, and are consistent with
their long range academic and career
objectives.

Recommended Courses: Students intending to enroll in the criminal justice program are urged to complete an associate of arts degree at the lower division. Entering students are not required to have been enrolled in a precriminal justice program. Students having an associate of science degree or 60 semester hours will also be accepted, but must complete general education requirements before the bachelor's degree can be awarded.

To qualify for admission to the program, FIU undergraduates must have met all lower division requirements, including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program

Core Courses: Six courses are required of every student in criminal justice. A core course requirement can only be waived by the Director with the recommendation of the student's faculty advisor.

CCJ 3011	Nature and Causes of	
	Crime	3
CCJ 3101	Law Enforcement	
	Systems	3
CCJ 3290	Judicial Policy Making	3
CCJ 3300	Correctional Philosoph	١٧,
	Theory and Practice	3
CCJ 3700	Methods of Criminal	
	Justice Research	3
CCJ 4252	Criminal Justice and the	าย
	Constitution	3

Area of interest: Eighteen semester hours at the 3000-level or above in criminal justice are required for criminal justice majors. Only nine semester hours of CCJ 4940 will count toward this requirement.

Specific electives: Nine semester hours at the 3000-level are required in sociology-anthropology, social work, psychology, political science, computer science, public administration, or statistics. Any combination of these courses is acceptable.

General electives: Fifteen semester hours are required. No more than nine hours can be criminal justice courses. Relevancy of elective courses will be

determined in consultation with the student's advisor or the Director. The faculty retains the prerogative to accept or reject electives taken without approval.

Remarks: Independent study and directed reading courses may not be taken outside of the Criminal Justice Department except with written permission of the Criminal Justice Director.

Coursework from disciplines outside of criminal justice will not be accepted to fulfill requirements in the criminal justice area of interest category.

Students are required to maintain a minimum GPA of 2.0 in the criminal justice area of interest and a minimum grade of 'C-' in each of the criminal justice core courses.

Criminal justice majors are advised to complete all core requirements in the early stages of their study in order to insure completion for graduation.

Transfer Credit: A student transferring from a four year college may transfer up to 84 semester hours into the criminal justice program; however, the student must still have at least 60 semester hours at the 3000-level or above. All work transferred to FIU is subject to review and approval by the Criminal Justice Director. Criminal justice courses completed with a grade of 'D' will not be transferred.

Double Majors and Degrees

Students must complete the core courses (18 hours) plus 18 additional hours in Criminal justice in order to:

1. Satisfy criminal justice

requirements for a double major

Obtain a second degree with a major in criminal justice
 Obtain two baccalaureate

degrees simultaneously (provided requirements for two majors have been completed as certified by the appropriate academic units, and a minimum of 30 appropriate semester hours beyond the requirements of one degree have been earned).

Minor in Criminal Justice

A five course minor in criminal justice is available to baccalauroate degreeseeking students who are interested in careers in the criminal justice field. The courses that comprise the minor will provide students with the opportunity to relate to the special concerns of law enforcement, corrections, and the judicial systems. The minor is available on both campuses.

Requirements: Fifteen semester hours in criminal justice. The classes are to be selected from the following course list.

CCJ 3011	Nature and Causes of Crime	3
CCJ 3020	An Overview of	0
	Criminal Justice	3
CCJ 3101	Law Enforcement	_
CCJ 3271	Systems Criminal Procedure	3
CCJ 3271	Judicial Policy Making	3
CCJ 3290	Judicial Administration -	0
OCC OLS.	Criminal	3
CCJ 3300	Correctional Philosophy,	
	Theory and Practice	3
CCJ 3302	Correctional Treatment	_
0010000	Programs	3
CCJ 3320	Community Based	3
CCJ 3341	Treatment Offender Counseling	3
CCJ 3450	Institutional Organization	_
000 0400	and Administration	3
CCJ 3460	Human Resources in	
	Criminal Justice	3
CCJ 3461	Developing Interpersona	
	Communication	3
CCJ 3470	Criminal Justice	3
0010501	Planning Juvenile Delinguency,	3
CCJ 3501	Prevention, and	
	Control	3
CCJ 3700	Methods of Criminal	
	Justice Research	3
CCJ 3934	Contemporary Issues in	
	Criminal Justice	3
CCJ 4032	Crime and the Media	3
CCJ 4130	Police and the Community	3
CCJ 4252	Criminal Justice and the	
000 4202	Constitution	3
CCJ 4280	Law and Criminal	
	Justice	3
CCJ 4282	Legal Issues in	
001.4004	Corrections	3
CCJ 4331	Probation, Parole, and Community Programs	3
CCJ 4440	Administration of	J
000 4440	Correctional	
	Institutions	3
CCJ 4453	Methods of Institutional	
	Change	3
CCJ 4462	Human Relations	
0014000	Training	3
CCJ 4630	Criminal Justice. The International	
	Perspective	3
CCJ 4661	Terrorism and Violence	
	in Criminal Justice	3
CCJ 4662	Criminal Justice and the	
	Minority Community	3
CCJ 4663	Womon, Chme, and	
	the Criminal Justice System	3
	System	_

Graduate Program

The Master of Science degree program in Criminal Justice is a professional program designed to prepare students

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for management responsibilities in the criminal justice sector or public sector related activities.

The objectives of the master's program are:

- To provide present and future criminal justice managers with the skills needed to function effectively in our ever-changing society.
- To serve as a catalyst for interdisciplinary research and study of criminal justice and related problems.
- To provide the criminal justice system with qualified students for academic careers in administration, planning and analysis, and teaching in colleges and universities.

Students having a bachelor's degree from an accredited institution and a minimum of a 3.0 GPA in all undergraduate upper division work, or a total score of 1000 on the Graduate Record Examination (verbal and quantitative) or a score of 500 on the Graduate Management Admission Test (GMAT), or a graduate degree from an accredited institution are eligible for admission to the program. All applicants must complete the GRE prior to full admission status. A maximum of 12 semester hours may be taken as a nondegree seeking student. This status does not guarantee admission to the degree program.

Degree: Master of Science

Degree Credit Requirements: The Master's degree in Criminal justice requires (36) semester hours of credit. A maximum of (6) semester hours not included in another degree may be transferred into the program from an accredited institution, subject to the approval of the department director. Candidates have the option of two programs of study: the thesis and nonthesis options. Those selecting the thesis option are required to complete 30 semester hours of course work and six semester hours of thesis. The nonthesis option consists of 36 semester hours of coursework. All candidates must take six core courses.

Specific Program Requirements: Six courses in criminal justice are required and the remaining courses are electives, two of which may be thesis requirements, and two may be taken outside of criminal justice if no courses have been transferred into the program from another degree program.

CCJ 5105	Police Organization, Behavior, and	
	Administration	3
CCJ 5285	Judicial Process and	
	Policy	3
CCJ 5445	Corrections and	
	Correctional	
	Management	3
CCJ 6705	Advanced Research	
	Methods	3

Electives: (18 s	semester hours)	
CCJ 5056	History and Philosophy	
	of Criminal Justice	3
CCJ 5216	Criminal Law	3 3
CCJ 5235	Criminal Procedure	3
CCJ 5286	Comparative Law	3
CCJ 5387	Legal Aspects of	
	Corrections	3
CCJ 5525	Seminar in Juvenile	
	Delinquency	3
CCJ 5605	Deviance and Social	
	Control	3
CCJ 5669	Minorities in Justice	
	Administration	3
CCJ 5935	Special Topics	3
CCJ 6456	Administration and	
	Management of	
	CCJ Agencies	3
CCJ 6477	Seminar in Information	
	Systems	3
CCJ 6665	Victimology and Crimin	al
	Justice System	3
CCJ 6706	Applied Statistical	
	Techniques for CCJ	3
CCJ 6716	Planning and Program	
	Evaluation	3
CCJ 6915	Directed Individual	
	Graduate Study in	
	Criminal Justice	3
CCJ 6945	Field Research	
	in CCJ	3
CCJ 6971	Thesis Research	
	Prospectus	5
CCJ 6976	Masters Thesis	
	Defense	4

Additional Procedures: Thesis tract students will select a committee of three graduate faculty members, the student's major faculty advisor being a member and chairperson of this committee. The major advisor and committee will be responsible for overseeing the student's work while in the master's program. Admission to the program should not be construed as admission to candidacy for a degree. Students may apply for candidacy upon completion of 15 semester hours. Admission to candidacy should be completed before the student enrolls for the last 12 hours.

Graduation Requirements: To receive the master's degree in criminal justice, a student must satisfy all university regulations governing graduate study. Students in the thesis track must be admitted to candidacy and complete the six core courses, four electives, and the

two thesis courses. The student may be required to undergo an oral discussion of the thesis. Students in the non-thesis track must be admitted to candidacy and complete the six core courses and six electives. A minimum GPA of 3.0 is required.

Course Descriptions

Definition of Prefixes

CCJ-Criminology and Criminal Justice.

CCJ 3011 The Nature and Causes of Crime (3). Issues involved in defining, measuring and explaining crime. The course focuses on patterns and trends in crime and the extent to which current theories explain those patterns and trends.

CCJ 3020 An Overview of Criminal Justice (3). An in-depth survey/overview of the process of criminal justice locusing on that process as a system and the different models by which the system can be viewed. Focus will be on the role and interrelationship of the various components of the system.

CCJ 3101 Law Enforcement Systems (3). A study of the American police system that examines the origins, functions, and operations of policing modern society.

CCJ 3271 Criminal Procedure (3). An in-depth study of the 4th through 8th Amendments of the Constitution, and their impact on the criminal justice process.

CCJ 3290 Judicial Policy Making (3).
Analysis of the Federal and State
judicial systems and their impact upon
legal, social, and political environments.
Emphasis shall be placed upon the roles
of the prosecution, defense, and the
judiciary in the processing of cases
through the court system.

CCJ 3291 Judicial Administration-Criminal (3). Historical and contemporary overview of the concepts of court administration, organization, management, and delivery of court services. Primary emphasis shall be upon judicial roles, practices, decisionmaking and accountability. Within this framework, this course focuses upon an in-depth consideration to both the fedderal and state court systems.

CCJ 3300 Correctional Philosophy, Theory and Practice (3). Critical analysis of contemporary correctional philosophy, theory and practice. Prisons, probation, parole, work-release, halfway house, community based corrections programs, and other practices are examined historically and in their current settings.

CCJ 3302 Correctional Treatment Programs (3). Study of the types of treatment programs and services that are provided to offenders in correctional institutions, with an emphasis on operational problems and the overall effectiveness of these programs.

CCJ 3220 Community Based Treatment (3). An examination of the various pre-trial and post-trial community based treatment and supervision programs. Emphasis will be placed on the impact of these programs on the criminal justice system and the offender.

CCJ 3341 Offender Counseling (3). The nature and function of counseling and casework in various correctional settings, including the theoretical basis for various approaches, individual and group methods of counseling, and the effectiveness and limitations of counseling.

CCJ 3450 Institutional Organization and Administration (3). Analysis of internal organizational structure and executive roles and functions in criminal justice agencies. Examines administrative and managerial concepts underlying decision making, policy formulation, operational strategies, and coordination and control procedures.

CCJ 3460 Human Resources In Criminal Justice (3). Concepts, issues, and applications of management styles and strategies within an organizational setting; leadership approaches; goal setting; career development and selection; motivation; communications and change; efficiency and effectiveness in measuring individual and group performance.

CCJ 3461 Developing Interpersonal Communication (3). The emphasis of this course is on the development of interpersonal communication practices that can be effectively utilized in a helping role and on the job, to improve interaction among employees and the public.

CCJ 3470 Criminal Justice Planning (3). Planning methods applicable to criminal justice agencies and crime control on local, state, regional and national levels. Theories, tochniques, and applications of planning as a decision making process for criminal justice agencies and entire systems.

CCJ 3501 Juvenile Delinquency, Prevention and Control (3). Course locuses upon the nature of juvenile delinquency and on patterns of delinquency historically and currently and the theories that attempt to explain delinquency; a description and critique of the juvenile justice system.

CCJ 3700 Methods of Criminal Justice Research (3). A description and critique of research methodologies utilized to study the nature of crime and the operation of the criminal justice system. Focus on the understanding, use and interpretation of research methods and statistical techniques so that students can understand and evaluate published research.

CCJ 3934 Contemporary Isaues In Criminal Justice (3). An extensive examination of selected contemporary issues in criminal justice. May be repeated.

CCJ 4032 Crime and the Media (3). An examination of the role of the media in reporting crime and the extent to which media coverage of crime and the criminal justice system impacts the commission of crimes and the operation of the system.

CCJ 4130 Police and the Community (3). Relationships between the police and the community with emphasis upon the police role in managing areas of tension and potential conflict, such as the problems of racial/tethnic minorities or civil disobedience.

CCJ 4252 Criminal Justice and the Constitution (3). A case law study of constitutional issues as they relate to the administration of criminal justice; emphasis on the establishment of case precedent and its impact upon the Criminal Justice System.

CCJ 4280 Law end Criminal Justice (3). An analysis of historical and contemporary legal dilemmas confronting the criminal justice system Existing catogories of law, sanctions, logal theories, and schools of jurisprudence shall be reviewed to assist practitioner in decision making and problem resolution.

CCJ 4282 Legal Issues in Corrections
(3) An analysis of contemporary legal
decisions regarding the rights and
responsibilities of prisoners, correctional
administrators, and correctional officers
Emphasis shall be placed upon legal
problems involved in pre-sentence
investigations, parole, incarceration, and
loss and restoration of civil liberties.

CCJ 4331 Probation, Parole and Community Programs (3). History, organization, administration, and effectiveness of probation, parole and community programs for criminal offenders.

CCJ 4440 Administration of Correctional Institutions (3). Theories and techniques of administering correctional institutions; planning and decision making; correctional law; security and custody, physical plant, and inmate programs; the social structure of the prison community and inmate social systems.

CCJ 4453 Methods of Institutional Change (3). A critical examination and analysis of external factors influencing the administration of justice; discussion of the impacts of public perceptions and attitudes, social values, political climate, legal constraints, and organized social movements upon all levels of criminal justice.

CCJ 4462 Human Relations Training (3). An experienced based course that will prepare selected students to present human relations training programs in criminal justice agencies.

CCJ 4630 Criminal Justice: The International Perspective (3). A comparative analysis of three types of criminal justice: common law systems (e.g., the U.S.); civil law systems (e.g., Germany); and socialist law systems.

CCJ 4640 Organized Crime (3). Historical development of organized crime in the U.S.; defining "organized crime" from U.S. and international perspective; patterns of criminal activity; critique of police and prosecutorial efforts to curb organized crime.

CCJ 4660 Crime and the Schools (3). Nature and extent of crimes committed against students, faculty and schools (arson, vandalism); patterns of drug abuse in the schools; characteristics of offenders and etiology of crime in the schools; description and critique of efforts by schools and juvenilo justice system to curb crime in the schools

CCJ 4661 Terrorism and Violence in Criminal Justice (3) The nature and causes of terrorism within the western world, analysis of particular terrorist groups focusing on their cultural background and objectives, critique of political, military, and law enforcement efforts to curb terrorism

CCJ 4662 Criminal Justice and the Minority Community (3). Patterns and trends in victimization and offending by different racial/ethnic groups, explanations for racial/ethnic variations in offending and victimization.

definitional issues involved in terms "racism", "prejudice", etc.; extent of discrimination/disparity at various points of the criminal justice system.

CCJ 4663 Women, Crime and the Criminal Justice System (3). Women as deviants, criminals, victims, and professional in the criminal justice system.

CCJ 4752 Introduction to Legal Research (3). This course is designed to introduce students to basic legal research methods for use in a criminal justice agency or private paraprofessional setting. The reporter systems, sheppards citations, federal and state, Digest, etc. shall be emphasized.

CCJ 4900 Directed Readings in Criminal Justice (3). Extensive reading and analysis of selected criminal justice literature under faculty supervision. Permission of instructor and Department Director is required prior to course registration. One credit per semester with a 3 credit cumulative maximum.

CCJ 4910 Independent Research (1-3). A course designed to provide qualified students with the opportunity to perform meaningful research in areas of criminal justice under the direction of a faculty member. Permission of instructor required (6 credits cumulative maximum).

CCJ 4940 Field Work and Special Projects (1-12). A course designed to broaden the experiential base, and application of theoretical content to the criminal justice field. Advisor's approval required. (Pass/ Fail grading)

CCJ 4949 Cooperative Education in Criminal Justice (1-3). Supervised full time work semester for criminal justice academic majors who demonstrate their interest in and potential for developing practical field agencies experience. Limited to students admitted to Co-op Program with consent of advisor. Prerequisite: Senior academic standing.

CCJ 5056 History and Philosophy of Criminal Justice (3). The historical and philosophical background of criminal justice is presented as a basis for a more analytical understanding of the problems and prospects of criminal justice organization, management, and behavior.

CCJ 5105 Police Organization, Behavior, and Administration (3). Analysis of the organization and administration of police departments and their effects on police behavior. CCJ 5216 Criminal Law (3). A concentrated study of the substantive criminal law based upon concepts, statutes, and cases that are enforced in state and federal courts.

CCJ 5235 Criminal Procedure (3). A case study of major legal cases dealing with criminal procedure in the United States.

CCJ 5285 Judiclal Process and Policy (3). The functions, roles, and interactions of decision makers will be analyzed and evaluated. The policy decisions and processing of criminal cases within the judicial system will be examined.

CCJ 5286 Comparative Law (3). An analysis of the major legal families of the world. Emphasis shall also be given to legal families which are becoming more important as colonialism comes to a close.

CCJ 5288 Legal Issues for Criminal Justice Administration (3). The course will focus on a basic understanding of administrative law and procedures in the American system. Topics will include the methods and limitations of the administrative process as it is developing in the American legal system.

CCJ 5347 Correctional Intervention Strategles (3). An overview and critical assessment of treatment and rehabilitation programs in corrections, including prisons, probation and parole, halfway houses, and pre-trial programs. Relevant research will be reviewed.

CCJ 5387 Legal Aspects of Corrections (3). A study of the contemporary legal rights of convicted offenders, including the impact of litigation on offenders, correctional agency personnel and operations, and other justice agencies. Case law and statutes will be reviewed within the context of the punishment and/or rehabilitation of the offender.

CCJ 5445 Corrections and Correctional Management (3). The course focuses on current critical issues and problems in the management of adjudicated offenders in correctional systems. The organization and administration of community and institutional corrections agencies will be reviewed and their performance analyzed.

CCJ 5525 Seminar In Juvenile Delinquency (3). Focuses on the nature, scope and causes of delinquency; considers problems of the assessment and measurement of delinquency. The philosophy, procedures, and effectiveness of the juvenile courts will be examined, including abuse, dependency, neglect, definquency, and family law.

CCJ 5605 Deviance and Social Control (3). This course will cover the major theoretical issues and ideas concerning deviant and criminal behavior and methods of socially controlling these behaviors.

CCJ 5669 Minorities In Justice Administration (3). Focuses upon the disparity in outcomes for minority groups (i.e. racial/ethnic/sexual) across the criminal justice system, and on alternative explanations for those differences in outcome. Also, issues related to the hiring and promotion of minority groups who work in the criminal justice system will be discussed.

CCJ 5935 Special Toples (3). An intensive analysis of a particular topic in criminal justice not otherwise offered in the curriculum. Topics may change each term, but may include organized crime, white collar and political crime, victimology, ethics, terrorism, sentencing, information systems, and other topics based on student interest or current concern. May be repeated. Prerequisite: Graduate Standing.

CCJ 6025 Theory In Administration of Justice (3). The study of theoretical and research issues related to the nature and causes of crime and the administration of justice.

CCJ 6456 Administration and Management of Criminal Justice Agencies (3). An examination of the criminal justice system from the perspective of administrative and management theory. Emphasis is upon the identification of organizational and administrative problems and their solutions.

CCJ 6477 Seminar in Information Systems (3). An advanced seminar in the survey and application of electronic data in the criminal justice system. Prerequisite: COC 3300 or permission of instructor.

CCJ 6665 Victimology and the Criminal Justice System (3). An examination of the relationship of victims and offenders and the manner in which the criminal justice system responds to victims of crime.

CCJ 6705 Advanced Research Methods (3). Emphasis is placed on the design of research projects, the analysis of research data, and the utilization of research within the criminal justice system.

CCJ 6706 Applied Statistical Techniques for Criminal Justice (3). Statistical tools applicable to criminal justice research are examined. Emphasis is on developing an understanding of the various techniques and their applications. The use of computerized statistical packages will be presented. Prerequisites: STA 3122 and STA 3123, or permission of instructor.

CCJ 6716 Planning and Program Evaluation (3). A systematic review of the problems involved in productivity, improvement in criminal justice agencies, and program evaluation.

CCJ 6915 Directed Individual Graduate Study In Criminal Justice (3). Students can select a particular aspect of criminal justice for in-depth independent study with a criminal justice faculty. Prerequisite: Graduate standing.

CCJ 6945 Field Experience in Criminal Justice (3). A course designed to provide selected students an opportunity to engage in action-oriented research within a criminal justice agency on a designated research project.

CCJ 6971 Thesis Research (3). This course is devoted to the actual research labor required for a thesis in the Masters program.

CCJ 6976 Masters Thesis Defense (3). This course is devoted to the effort required to prepare the thesis document.

Health Services Administration

David Bergwall, Associate Professor

Mellsse Ahern, Assistant Professor Gerald Cunningham, Instructor Thomas M. Dunaye, Professor and Associate Dean

Rosebud Foster, Professor Charles Frankenhoff, Senior Lecturer Susan Kamons, Assistant Professor Max Rothman, Senior Lecturer Krla Siddharthan, Assistant Professor Arnoldo Ventura, Associate Professor Vandon White, Professor

The Department of Health Services Administration offers graduate and undergraduate studies leading to Bachelors and Masters degrees in Health Services Administration.

The baccalaureate program provides professional education which typifies the traditional preparation of mid-

level and departmental administrators practicing various management functions in community based health care settings.

The graduate program provides scholarly, scientific, and professional education for management executives practicing the administration of complex health care organizations are overmental and private settings.

The modern management of health services occurs in an environment vexed with problems of organizational and technological change. Administrators charged with executive responsibilities must be grounded in a high degree of formal professional training followed by lifelong learning which fosters their continuous professional growth. With the delivery of health services becoming vastly more complex, general management competencies have emerged three and four levels below that of the chief executive officer in large health institutions. Many of the same skills needed for executive management are now also required to provide administrative leadership in staffing, directing, coordinating, and controlling the operational resources of administrative and clinical units in such organizations.

Health Services Administration Programs

The bachelor of Health Services Administration (BHSA) degree qualifies students for entry-level management positions in health services delivery organizations. The program provides professional education for administrative occupations in various health care settings. The degree also prepares individuals for further study in health services administration. It is an excellent career development pathway for persons licensed in clinical health and medical care professions but lacking an undergraduate degree.

The Master of Health Services Administration (MHSA) provides professional education for middle and senior management careers in health services delivery organizations. The degree addresses the theories and issues of managing complex organizations in both public and private settings. The program is organized to meet the needs of the working student. Many individuals enrolled are already employed in administrative roles in the field While enhancing their career, they bring the wealth of their experience to the classroom.

The Master's program is designed so that full-time students may complete all course work in four semesters. The same curriculum can be completed by

part-time students within three years Formal studies stress a basic foundation of professional knowledge, skills and competencies in management, planning, analytic and policy functions of health services administration.

Since these studies provide a professional emphasis, the Department utilizes a variety of local hospitals, long-term care facilities, prepayment plans, mental health programs, multi- institution corporations, emergency medical systems, health maintenance organizations, community health centers, and related public health and private agencies to give students supervise field experiences and a 'practical laboratory' for operational research in health service administration.

The goal of the Department of Health Services Administration is to create an academic center in which the University can respond to the educational needs of the field of health services administration. The Department's mission, therefore, is dedicated to the following educational objectives:

- To provide professional studies in the theories, methods and practices of health care management, planning, analysis, applied research, and policy development in health services organizations.
- To offer continuing education opportunities periodically for practicing administrators toward improving the effectiveness of their management performance.
- 3) To participate in interprofessional education experiences with faculty, students, and practitioners of the allied health sciences, public affairs, public health, and related human services professions interacting with the field of health care management
- 4) To extend consultation and technical assistance to appropriate organizational settings and practitioners in health services and administrative practice.
- 5) To conduct scholarly and applied research on various management problems and issues of significance to improving the delivery of health services.
- 6) To review and revise program curricula and objectives from time to time in order to keep current with the changing educational and professional needs of the field.

Degree Bachelor of Health Services
Administration

Admissions Criteria. Students seeking admission into the bachelor's program must meet the following minimum requirements.

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- An Associate of Arts degree, or its equivalent (e.g., Associate of Science, three year nursing diploma) in lower-division coursework (60 semester hours) completed in the first two years of preparation at an accredited college or university, with a minimum 2.0 cumulative grade point average.
- Non-traditional coursework is to be referred to the Department for evaluation.
- 3. The maximum of lower-division transfer credits is 60 semester hours. Upper division credit hours from another institution or department may be transferred up to a maximum of 30 semester hours toward the fulfillment of required or elective courses in the program.
- 4. Admitted applicants must meet all general educational requirements of the University, or receive provisional admission. Students with one deficiency will be admitted and applicants with two or more deficiencies will only be admitted with departmental approval.
- Any other general admissions requirements of undergraduate programs at the University as found in the catalog of the current academic year.
- 6. Students who have not completed the admission process may register as Affiliated Students pending admission. A maximum of 15 semester hours taken as an affiliated student can be used toward a degree. Affiliated status does not guarantee admission to the bachelor's program.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Internship Requirement

Students electing an administrative internship generally begin their internship in the final semester of the degree requirement. If this period of field placement is evaluated by the Department as successful, the student will graduate at the end of that semester provided that all other requirements have been met.

All students must achieve a GPA of 2.5 or higher in all upper-division coursework before they are permitted to enroll in the Administrative Internship (HSA 4850). Students must apply for the internship, be approved and placed in an agency by the Department in the semester before the administrative internship begins.

The Department utilizes the administrative internship as a mechanism in lieu of special arrangements with the University's Office of Cooperative Education. For further information regarding internship placements, reference should be made to the Department Policy and Procedures Statement on the Administrative Internship.

Program Requirements: All Department students completing the BHSA are also subject to undergraduate student regulations and degree requirements governed by the policies of the School of Public Affairs and Services, Florida International University, and the State University System.

Core courses required of all students: (27 semester hours)

(2) semester i	lours)
HSA 3103	Health and Social
	Service Delivery
	Systems ¹ 3
HSA 3180	Management for Health
	Professions ¹ 3
HSA 4170	Health Care Financing
	and Accounting
	Management 3
HSA 4110	Health Care
	Organization and
	Administration 3
HSA 4420	Legal Aspects and
	Legislation in Health
	Care 3
HSC 4202	Principles and Programs
	in Public Health 3
HSC 4500	Principles of Applied
	Epidemiology 3
HSC 4510	Statistical Methods for
	Health Care 3
HSA 4700	Fundamentals of Health
	Research Methods 3

1HSA 3103 is a prerequisite for all health related courses. HSA 3180 is prerequisite for all management courses.

Areas of Specialization: (One area of specialization required)

Special Care Systems: (15 semester hours)

hours)		
GEY 3002	Issues and Trends in	
	Gerontology	3
HSA 3123	Mental Health and	
	Mental Retardation	3
HSA 4104	Team Approach to	
	Health Services	
	Delivery	3
HSA 4140	Program Planning and	
	Evaluation	3
SOW 5643	Understanding the	
	Process of Aging	3

Management and Supervision: (15 semester hours)

HSA 4150	People, Power, and Politics in Health	
HSA 4183	Affairs Applied Management	3
	in Health Care Organizations	3

Human Resource	
Management	3
	ent
and Information	
Systems	3
Health Management	
Systems Engineering	3
	Management Automated Manageme and Information Systems Health Management

Elective Courses²: (18 semester

hours)		
HSA 4104	Team Approach to	
	Health Services	
	Delivery	3
HSA 4113	Issues and Trends in	
	Health Care Delivery	3
HSA 4194	Health Care Compute	r
	Applications	3
HSA 4905	Independent Study	3
HSA 4930	Special Topics Semina	ar
	in Health Services	3
HSA 4850	Administrative	
	Internship	6

²Elective courses may include upperdivision courses offered by any University department including departmental courses in an area of specialization not selected by the student.

Master of Health Services Administration

Admission Criteria: Students seeking admission into the graduate program must meet the following minimum requirements:

A Bachelor's degree from a regionally accredited university or college. Prerequisites for admission to this program are coursework in basic managerial accounting, statistics, and micro-economics with grade equivalents of 'C' or higher. (HSA 4170 and HSC 4510 are examples of equivalent courses provided by the Department.)

A 'B' or higher average in all work attempted while registered as an upperdivision student for a baccalaureate degree, or a total score (verbal and quantitative) of 1000 on the Graduate Record Examination (GRE), 500 on the Graduate Management Admissions Test (GMAT). Preference will be given to those who meet both of these qualifications. All graduate applicants to this program are required to take the GRE or equivalent test regardless of previous grade point average or degree.

Submission of a statement indicating the applicants reasons for seeking a master degree in health administration, previous work experience, career goals, and objectives.

Meeting the minimum requirements does not guarantee admission to the program. Admission will be based on additional factors such as space availability, relevant work

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experience, motivation, successful completion of work as a non-degree seeking student, and compatibility of applicant's career goals with the program's objectives.

Admissions Procedures: A student planning to enroll in the graduate program in Health Services
Administration must meet the University graduate admission requirements as stated in the Catalog's General Information section as well as department requirements.

All admitted students, whether full or part-time may begin their program of study in any semester, and all applications for admissions should be received by the Department no later than two months preceding the semester in which the student wishes to commence the program. If the admissions process cannot be completed in this time frame. the applicant may register as an affiliated student pending admission. A maximum of 12 semester hours taken as an affiliated student can be used toward the degree. Affiliated status does not guarantee admission to the degree program.

The Department Admissions Committee will review completed applications and candidates will be notified for a personal interview, which will be arranged at the mutual convenience of applicants and University faculty or their designee.

Degree Requirements: To be eligible for a Master's degree, a student must:

Satisfy all University
requirements for the Master of Health
Services Administration Program.

Complete a minimum of 48 semester hours of graduate level coursework in the department approved program.

 Earn a minimum GPA of 3.0 or equivalent in all work completed at the University as a graduate student.

 No courses in which a grade below 'C' is earned may be counted toward the master's degree.

5. A maximum of nine semester hor-credits of graduate coursework not included in another degree, may be transferred from an accredited university by petition at the time of admission.

Non-Degree Seeking Student Non-degree seeking students who wish

Non-obgree seeking students who wish to register for 5000-level courses may do so with the permission of the instructor. University regulations pertaining to nondegree seeking status must be observed.

Academic Warning, Probation and Dismissal

Refer to General Information section.

Administrative Residency

A three-month administrative residency in a health care organization is required of all students except those with extensive health services administration experience.

The residency is considered an integral part of the educational process. It is designed to provide practical experience with the theories, concepts, and administrative skills the students acquired during the first year of academic study. The residency is normally arranged in an agency or institution compatible with the students area of interest. The student works fulltime with the health agency during this period. The faculty supervises the student during this period. During this period, the residency constitutes fulltime matriculation in the program and will require payment of regular tuition fees for the field placement courses. Students must apply for the administrative residency, be approved and placed in an agency by the Department the semester before the residency begins. For more information, reference should be made to the Department Policy and Procedure Statement on the Administrative Residency.

Master's Research Project Requirement: Students with extensive health services administrative work experience may elect to do a research project in lieu of the three-month residency. The project will require an analysis of a major problem defined by the faculty or preceptor. For further information, reference should be made to the Department Policy and Procedure Statement on Master's Research Project.

Program Requirements: All Department students completing the master's program are subject to graduate student regulations and degree requirements governed by the policies of the School of Public Affairs and Services and the University.

Program Total: (48 semester hours)
Core Courses required of all students:
(42 semester hours)
HSA 5125 Introduction to Health

	Services ¹	3
HSC 5506	Epidemiology and	
	Research Methods of	
	Public Health	3
HSC 5515	Statistical Methods for	
	Health Services	3
HSA 6405	Behavioral Aspects of	
	Health and Illness	3
HSA 6155	Health, Policy and	
	Economics	3
HSA 6175	Financial Management	
	of Health Systems	3
HSA 6426	Health Law and Legal	

	Aspects of	
	Management	3
PHC 6315	Public Health and	
	Environmental	
	Management	3
HSA 6185	Health Care	
	Management Theory	
	and Practice	3
HSA 6186	Organizational	
	Behavior in Managing	
	Health Institutions	3
HSA 6149	Strategic Planning and	
	Marketing of Health	
	Care Services	3
HSA 6195	Quantitative Manageria	đ
	and Applied Research	
	Methods	3
HSA 6717	Advanced Health	
	Services Management	
	and Research Seminar	
	(CAPSTONE)	3
HSA 6877	Master's Research	
	Project	3
	or	
HSA 6875	Administrative	
	Residency	6
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HSA 5125 and HSA 6185 are prerequisites for all departmental graduate courses except for students who have completed the department's Bachelor's program. For such students, HSA 5125 and HSA 6185 are waived and electives substituted in the Master's program.

	semester hours)	
HSA 5225	Long Term Care	
	Administration	3
HSA 6215	HMO and Ambulatory	
	Care Administration	3
HSA 6176	Financial Reporting.	
	Review and	
	Reimbursement	
	Systems in	
	Health Care	3
HSA 6205	Hospital and Health	
	Facilities	3
HSA 6187	Personnel Manageme	nt
	and Labor Relations	3
HSA 6147	Comparative Health	
	Systems and	
	International Health	
	Planning	3
HSA 6196	Research Design and	
	Applied Analytical	
	Techniques for Health	
	Care	3
HSA 6245	Mental Health	
	Administration and	
	Planning	3
HSA 6905	Independent Advinced	1

1Students may pursue areas of special interest by selecting courses either within the Department or from other units of the University (i.e., social work, public administration, criminal justice, business administration, or other disciplines)

Study

Course Descriptions

Definition of Prefixes

HSA - Health Services Administration; HSC - Health Sciences; GEY -Gerontology

GEY 3002 issues and Trends in Gerontology (3). Students are introduced to the aging phenomenon and program efforts being undertaken by public and private agencies coping with the problem of aging

HSA 3103 Health and Social Service Delivery Systems (3). Students examine the history and current functions of health and social services delivery systems in the United States. Focus is on the components, their interaction and internal/external controls.

HSA 3123 Mental Health and Mental Retardation (3). The student will examine the community mental health services and services for the mentally retarded from a historical, policy, legislative, and systems perspective.

HSA 3180 Management for the Health Professions (3). Fundamental theories principles, and concepts of management are surveyed to prepare the student for a middle-management position in health care. Case studies are utilized for practical application.

HSA 4104 Team Approach to Health Service Delivery (3). Team formation, structure, composition, maturity, growth, and the process are identified. Team management in health facilities are discussed

HSA 4110 Health Care Organization and Administration (3), U.S. health care organizations are examined from a systems viewpoint locusing on macro and micro systems and corporate hospital management. Prerequisite: HSA 3190

HSA 4113 Issues and Trends in Health Care Delivery (3). Issues and trends in policy questions involving health care organizations, financing, quality controls, and delivery of services are addressed

HSA 4140 Program Planning and Evaluation (3). Basic concepts of planning and evaluation as the fundamental tools of program design and development are examined.

HSA 4150 People, Power and Politics In Health Affeirs (3). Community power structures are analyzed as to their function in politics and decisions governing health care. Health professional's role is studied with respect to the political process in health care. HSA 4170 Health Care Financial and Accounting Management (3). Basic accounting and department-level financial management methods and procedures are taught at the supervisory level of health care institutions. Prerequisite: HSA 3180 or permission of instructor.

HSA 4183 Applied Management in Health Care Organization (3). Management theory and principles are examined in their application to the administrative process. Case studies are emphasized to illustrate operational conditions found in health care settings. Prerequisites: HSA 3180, HSA 4110, or permission of instructor.

HSA 4184 Human Resources Management and Supervision (3). The role of health care supervisors is examined with respect to interviewing, performance appraisal, disciplining, counselling, job orientation, in-service education and responsibilities. Prerequisites: HSA 3180 or permission of instructor.

HSA 4192 Health Management Systems Engineering (3). Introduction to health systems analysis and application of industrial engineering techniques including work systems, job analysis, space utilization, inventory control, and traffic patterns are studied. Prerequisite: HSA 3180, HSA 4110, or permission of instructor.

HSA 4193 Automated Management and Information Systems (3). The analysis, design, and installation of management information systems in health care organizations is studied. Evaluation of computer systems from several perspectives are examined. Prerequisite: HSA 4192 or permission of instructor.

HSA 4194 Health Care Computer Applications (3). Computer applications for administrative analysis of various patient care, financial and program data typically lound in health care is studied with design, interface, and data structures.

HSA 4420 Legal Aspects and LegIslation in Health Care (3). Corporate structure and legal liabilities of health care institutions and professionals is studied from a local, state, and federal regulatory position. Prerequisite: HSA 4110 or permission of instructor.

HSA 4700 Fundamentals of Health Research Methods (3). Introduction to health research method's tools including literature research, research report analysis covering research design, and data analysis and reporting writing are examined and practiced. Prerequisites: HSC 4510, HSC 4500, or permission of instructor.

HSA 4850 Administrative Internship (6). The student who has completed all required upper division course work is provided an opportunity to observe and engage in administrative practice in a health care setting. Prerequisite: Completion of all curriculum required course work. Prerequisite: Approval of the Coordinator.

HSA 4905 Undergraduate Independent Study (1-3), Students take part in in-depth research or an action-oriented project under the supervision of their faculty advisor. Preparation and approval of the content must be made one semester in advance. Prerequisite: Permission of faculty advisor.

HSA 4930 Special Topics Seminar In Health Services (3). Students investigate topics of interest in health care services through lectures by the faculty and guest speakers. May be repeated. Prerequisite: Permission of faculty advisor.

HSA 5125 Introduction to Health Services (3). The American health care system is broadly analyzed in social, economic, and political terms, including examination of its major operational and programmatic components as they have evolved in their changing patterns and trends of organizational development.

HSA 5225 Long-Term Care
Administration (3). Nursing home and
long-term care institutional organization
and management are studied for
specialized administrative knowledge in
the successful operation of these types
of health care facilities and their special
patient populations.

HSA 5408 Health Services Consumer Behavior (3). Course examines the lactors affecting consumer choice in the utilization of types of health services, health services delivery locations, and methods of health care delivery. Examines the role of the provider in consumer behavioral model.

HSA 6147 Comparative Health Systems and International Health Planning (3). Students are directed through a study of the social, economic, political, and cross-cultural aspects of comparing health care systems of different countries of the world in terms of international perspective and relevance to future developments in the U.S. system.

HSA 6149 Strategic and Marketing of Health Care Services (3).

Principles, techniques, and case study applications of strategic planning and marketing in the context of changing environmental, policy, and competitive forces in the health services industry. Prerequisites: HSA 6175, HSA 6195, or permission of instructor.

HSA 6155 Health Pollcy and Economics (3). The impact of government, private sector, and various interest groups on health care policy determination is analyzed through the application of basic economic principles. Prerequisite: Completion of all other coursework or permission of instructor.

HSA 6175 Finencial Management of Health Systems (3). Aspects of modern hospital and health care organization financial management are covered to prepare students for executive roles in policy planning and control responsibilities involving budgeting, auditing, investing, capital financing, etc. Prerequisite: HSA 5125, HSC 5515, or permission of instructor.

HSA 6176 Financial Reporting, Review and Relmbursement Systems in Health Care (3). Financial reporting requirements of health care facilities and programs serve as the primary locus of this course. Cost reporting requirements of medicare, medicaid and private third party payers are analyzed. Prerequisite: HSA 6175 or permission of instructor.

HSA 6185 Health Care Management Theory and Practice (3). This is the anchoring course for examining each specialized study of the management functions in theory and in practice as they apply to health care organizations of both public and private sectors. Prerequisite: HSA 5125 or permission of instructor.

HSA 6186 Organizational Behavior in Managing Health Institutions (3). General theories of organizational behavior and executive functions are examined in their application to hospitals and other health agoncies. Prerequisite: HSA 6185 or equivalent with instructor's permission.

HSA 6187 Personnel Management and Labor Relations (3). Staffing function of manpower and related personnel resources in health care organizations, practices of wage determinations, take analysis, employee recruitment/selection, work evaluation, collective bargaining, and contract negotiation implications. Prerequisite: HSA 6185 or permission of instructor

HSA 6195 Quantitative Managerial and Applied Research Methods (3). Surveys the operations research tools and techniques used in health care organizations to solve operational and control problems that impact on efficiency, effectiveness, productivity, technological change, innovation, retrolitting. Prerequisite: HSC 5515 or equivalent with permission of instructor.

HSA 6196 Research Design and Applied Analytical Techniques for Health Care Information (3). Develops skills and techniques for the quantitative analysis of various data sets for health organization administrative and clinical information. Prerequisite: HSC 5515.

HSA 6205 Hospital and Health Facilities Organization (3). Administrative theory and management principles are examined in their application to the organizational analysis of hospitals and health care facilities. Prerequisites: HSA 5125, HSA 6185 or permission of instructor.

HSA 6215 HMO and Ambulatory Care Administration (3). Overview of the management process employed in health maintenance organizations (HMO's) and other group medical practices operating under various linancial arrangements, including prepayment. Prerequisite: HSA 5125.

HSA 6245 Mental Health Administration and Planning (3). Psychiatric and mental illness institutions are examined in terms of specialized organizations and administrative knowledge required for the operation of these typed of health care facilities and their particular patient populations

HSA 6405 Behavioral Aspects of Health and Illness (3) Psychological determinants of health, illness, and sick role behavior, with emphasis on risk taking behavior and preventive intervention. Critical review of models of health behavior.

HSA 6426 Health Law and Legal Aspects of Management (3) The broad range of legal issues in health care and administrative aspects of law that concern health care managers are surveyed for implications concerning malpractice, patient rights, contracts, liability and immunity, taxation, surgical consent, etc. Prerequisite. HSA 6185 or permission of instructor.

HSA 6717 Advanced Health Services Management and Research Seminar (3) Integrates the theoretical and practical knowledge of other courses and activities in the curriculum. Selected case studies and relevant research drawn from the literature in health care management provide the substantive framework for seminar analysis of issues and policy questions. Prerequisite: Completion of other coursework or permission of instructor.

HSA 6756 Applied Programs
Development and Evaluation Methods
in Health Services (3). Program
evaluation as part of on-going
assessment of effectiveness. Evaluation
models and study design is analyzed.
Practical emphasis on preparation of
grant proposal.

HSA 6875 Administrative Residency (3). Off-campus placement in residency with health care organizations under supervision of a managing preceptor at the site. Prerequisite: Approval of the Coordinator.

HSA 6877 Masters Research Project (3). The student will be field afforded the opportunity to conduct a research project on a specific health care management problem in a community or institutional setting. A lormal proposal will be prepared and approved by faculty. Students will be expected to demonstrate during the course of this research project that they can implement theoretical knowledge and skills learned earlier in courses on research methods and design. Prerequisite: Permission of advisor.

HSA 6905 Graduate Independent Study (3). This course is designed to allow students an opportunity for indepth literature research or an action-oriented project carried out under the supervision of their faculty advisor Prerequisite Permission of faculty advisor

HSC 4202 Principles and Programs in Public Health (3). Analysis of public health programs and planning is studied Public health history and philosophy locusing on a broad environmental and epidemiological problems are examined Prerequisites. HSA 3103, 3180, or 4125

HSC 4500 Principles of Applied Epidemiology (3) Methods and techniques used by epidemiologists investigating the distribution and causes of diseases are studied. A holistic approach to principles of disease surveillance and control is studied. Prerequisites. HSC 4202 and 4510.

HSC 4510 Statistical Methods for Health Care (3) Basic statistics and quantitative analysis are introduced to students for application with clinical and supervisory management problems encountered in health care settings. Prerequisite: College Algebra or equivalent.

HSC 5506 Epidemiology and Research Methods of Public Health (3). Advanced epidemiological and survey research methods are applied to the investigation of public and personal health problems. Prerequisite: HSC 5515.

HSC 5515 Statistical and Research Methods for Health Services (3). This course presents concepts of descriptive, interential, and non-parametric statistics, including the use of common computer program packages for analyzing public and clinical health statistical data.

Prerequisite: HSC 4510 or equivalent.

Public Administration

Ralph G. Lewis, Associate Professor and Director

Keith W. Baker, Associate Professor Dolores Brosnen, Assistant Professor Howard Frank, Assistant Professor Donald Klingner, Professor Stephen C. Loveless, Associate Professor

Carmen Mendez, Instructor
Robert Meyers, Assistant Professor
Myung S. Perk, Professor
Ann-Marle Rizzo, Associate Professor
Allen Rosenbaum, Professor and
Daan

Henry B. Thomas, Assistant Professor

Degree: Bachelor of Public Administration

The Bachelor of Public Administration (BPA) degree is offered for students interested in beginning a public service career upon completion of their undergraduate work and for those who wish to continue in public administration at the graduate level.

Admission Requirements: A student who has completed an Associate of Arts degree at a Florida public community college, or has earned 60 semester hours of college credit at any other accredited institution at an acceptable performance level.

Students with an Associate of Science degree or 60 semester hours will be accepted but must complete the General Education requirements before the bachelor's degree can be awarded.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Lower Division Preparation

It is recommended that applicants complete the Associate of Arts degree (60 semester hours) in the lower division and the General Education course requirements, including one course in American Government and Introductory Algebra or Statistics.

Upper Division Program

Students are required to complete:

- Seven core courses.
 Four courses in an
- administrative area of concentration to be taken within the Department.
- Four elective courses relevant to the student's program of study. These courses may be taken in other departments but must be approved by an advisor.
 - 4. Five general electives.

Note: Students must earn a grade of 'C' (2.0) or higher in each of the seven core courses, four administrative area courses, and four concentration related elective courses. A grade of 'C-' or below must be repeated.

Core Courses: (21 semester hours) PAD 3034 Public Policy and its

	Administration 3
PAD 3104	Organization and
	Administrative
	Theory 3
PAD 3702	Quantitative Techniques
	for the Public Sector 3
PAD 4024	Concepts and Issues in
	Public Administration 3
PAD 4223	Public Sector
	Budgeting 3
PAD 4414	Personnel Skills for
	Administrators 3
PAD 3438	Communication Skills for
	Public Administrators 3

Note: Students who have not completed an approved introductory Public Administration course as part of their Lower Division preparation must take PAD 3002 Introduction to Public Administration, as an additional core requirement replacing one general elective.

Administrative Area of Concentration Courses: (12 semester hours) One course must be taken from each of the following skill levels.

Political, Legal, Social, and Economic Contexta:

PAD 3033	Administrators and the Legislative Process	3
PAD 3834	International Comparative	
	Administration	3
PAD 4603	Administrative Law	3

2. Individual, Group, end Organizational Dynamics:

PAD 3430	Personal Growth and	j
	Administrative	
	Development	3
PAD 3413	Organizational and	
	Group Processes	3
PAD 4103	Politics of Administra	tive
	Organization	3
PAD 4432	Administrative	
	Leadership and	
	Behavior	3

3. Policy and Analytic Skills:

PAD 4103	Politics of Administr	rative
	Organization	3
PAD 4432	Administrative	
	Leadership and	
	Behavior	3
4. Administra	estions	

PAD 3804 Government and

	Administration of	
	Metropolitan Areas	3
PAD 3834	International	
	Comparative	
	Administration	3

Concentration Related Electives: (12 semester hours)

Four additional courses must be taken but may be completed within or outside the Department. Those courses selected must be approved by the Department as being related to the student's program of study. These may be additional courses in the Department or they may be outside the department including courses that constitute part of a minor or a certificate program in another department. Such a minor or certificate program should be relevant to the chosen administrative area of concentration.

Note: Students who have not had employment experience relevant to public sector organizations will be encouraged to complete an internship in an approved public agency as one of the tour area of concentration related courses.

Additional Electives: (15 semester hours)

Five courses will consist of general coursework to be completed outside the Department. Students choosing a minor or a certificate program for their concentration-related electives may complete those program requirements as general electives for the BPA, if necessary.

Minor in Public Administration

A five-course minor in Public Administration is available to baccalaureate degreeseeking students who are interested in careers in public management. The courses that comprise this minor will provide students with the opportunity to develop specialized skills in such areas as urban administration, organizational change, personnel management, and budgeting and financial management. The minor is available on both campuses.

Requirements: Fifteen semester hours in Public Administration. Classes are to be selected from the following course list:

00.00100	and rememming decided moti	
PAD 3033	Administrators and the Legislative Process	3
PAD 3034	Public Policy and Its	3
	Administration	3
PAD 3104	Organization and	
	Administrative Theory	3
PAD 3413	Organizational Group	
PAD 3430	Processes Personal Growth and	3
PAD 3430	Administrative	
	Development	3
PAD 3702	Quantitative Technique	
1 AD 0102	for the Public Sector	3
PAD 3804	Government and	•
	Administration of	
	Metropolitan Areas	3
PAD 3834	International	
	Comparative	
	Administration	3
PAD 4024	Concepts and Issues in	
DAD 4040	Public Administration	3
PAD 4040	Public Values, Ethics a Morality in Changing	na
	Environment	3
PAD 4103	Politics of Administrativ	
1710 4100	Organization	3
PAD 4223	Public Sector	•
	Budgeting	3
PAD 4414	Personnel Skills for	
	Administrators	3
PAD 4432	Administrative	
	Leadership and	
	Behavier	3
PAD 4603 PAD 5041	Administrative Law	3
PAU 5041	Values and Technology	3
PAD 5256	in Modern Society Economic Aspects of	J
TAD 3230	Government	3
PAD 5427	Collective Bargaining in	
	the Public Sector	3
PAD 5435	Administrator and the	-
	Role of Women	3
PAD 5443	Public Administrator an	
	Media Relations	3

Master of Public Administration

Degree: Master of Public Administration

The Master of Public Administration (MPA) degree is offered to prepare individuals for successful public sorvice or academic careers. The MPA program provides a general degree in public

administration with emphasis on individual student area concentrations. It prepares pre-service and in-service students to assume positions in management and management support areas, such as municipal managers, personnel directors, public service administrators, and budget and linance directors. For students seeking a career in teaching and research, the degree is designed to prepare them with a firm command of the relevant theoretical and operational public administration concepts and research skills necessary to pursue successfully doctoral studies.

Admission Requirements: All applicants must hold a baccalaureate degree from an accredited college or university. In addition, each applicant must have a Graduate Record Examination (GRE) composite score of at least 1000 on the Verbal and Quantitative sections or a GPA of 3.0 or higher for all college coursework at the junior and senior levels. All applicants regardless of previous GPA are required to submit the appropriate test scores.

In addition, applicants are required to submit: (1) Three letters of recommendation from persons in the field of public administration and/or the academic major at the institution most recently attended; (2) A written personal statement concerning their interest in a career and aspirations in public administration; and (3) current resume.

The Master of Public Administration program is a 39 semester hour program composed of seven required courses (21 semester hours):

PAD 6053	Political, Social and Economic Context of	
	Public Administration	3
PAD 6106	Organizational Theory	
	and Administrative	
	Behavior	3
PAD 6227	Public Finance and the	
	Budgetary Precess	3
PAD 6417	Public Personnel	
	Administration	3
PAD 6701	Quantitative Methods	
	and Computer Skills	3
PAD 6706	Research Methods in	
	Complex Public	
	Organizations	3
PUP 6005	Public Pelicy	3
	,	

Any core course may be waived through petitien to the laculty. In such cases, students must demonstrate that their performance in previous course work meets or exceeds core course requirements.

The remaining 18 semester hours can be earned by pursuing one of three different tracks. These tracks are based on the fact that most students in the program fall broadly into two major

categories: those who already have public sector experience, and those who wish to embark on public service careers but whose relevant experience is limited To accommodate the diverse needs generated by those backgrounds, three tracks are included in the program.

Track I is aimed at persons seeking a more general background in public administration. All non-core courses are arranged into six modules. These modules are not concentrations or specializations, but simply clusters of course arranged by commonality of subject matter.

Students electing Track I will take at least one course from five of these six modules.

Values and Administration	7
Values and Technolog	У
in Medern Society	3
Democracy and the	
Administrative State	3
Administrative Law and	ď
Procedures	3
	Values and Technolog in Medern Society Democracy and the Administrative State Administrative Law an

Module II: Organizational Behavior		
PAD 5427	Collective Bargaining in	n
	the Public Sector	3
PAD 6109	Organizational	
	Development and	
	Change	3
PAD 6419	Seminar in Applied	
	Public Personnel	
	Management	3
PAD 6437	Dynamics of Individual	
	Growth	3

Module III: Qu Techniques	iantitative Managemer	ıt
CGS 6301	Management Informat	on
	Systems	3
PAD 5256	Economic Aspects of	
	Gevernment	3
PAD 6205	Public Financial	
	Management	3
PAD 6229	Advanced Managemer	nt
	Techniques	3
PAD 6715	Public Menitering and	
	Evaluation	3
PUP 6006	Public Policy Analysis	
	and Evaluation	3

Module IV: Administrative Issues		
PAD 5043	Government and Minority	
	Group Relations 3	
PAD 5435	Administrator and the	
	Role at Women 3	
PAD 5443	Public Administrator and	
	Media Relations 3	
PAD 5934	Centemporary Issues in	
	Public Administration 3	

Module V: State and Lecal Governments

PAD 6807

Urban and Municipal Government Administration

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	Government Administration	3
Module VI: In	ternational	
PAD 6225	Comparative Public	
	Budgeting	3
PAD 6836	International Public	
	Administration	3
PAD 6838	Development	
	Administration	3

PAD 6816

Track II is aimed at students who wish to specialize in personnel management and labor relations, or public finance. Students who elect either of these specifications will take at least five courses approved by the Department. Students electing the concentration in public finance will be required to complete 48 semester hours.

Track III is for those students who wish to concentrate on a particular area relevant to public administration, for instance, public health management, public sector finance and accounting, criminal justice, social work, etc. In such cases, students may take up to 15 semester hours from other departments within the university which offer courses relevant to the area of concentration. Students who select this approach must identify their area of concentration early in their course of study, and all courses to be taken outside the Department of Public Administration must be approved prior to registration. Any remaining course work required to complete the 39 semester hour program is to be chosen from elective courses in Public Administration.

The remaining three semester hours may be taken as either PAD 6907. PAD 6915, PAD 6946, or a scheduled elective course. Pre-service students (those lacking at least one year of related post- baccalaureate professional experience prior to the date of application) are strongly urged to enroll in PAD 6946 (Internship). No more than three hours of PAD 6907, PAD 6915, or PAD 6946 will generally be credited toward degree requirements.

Doctor of Philosophy

Degree: Doctor of Philosophy In Public Administration

The Doctor of Philosophy in Public Administration (Ph.D. PA) is offered in affiliation with Florida Atlantic University. The basis of the degree is scholarship: one purses the degree in preparation for a career in which scholarly competence and demonstrated capability to conduct significant research is an essential element and one is conferred the degree only after demonstrating such

knowledge, in course work, in examinations, and in disciplined research. Its pursuit is a rigorous one, administered by a research-oriented faculty fostering the commitment to testing the boundaries of knowledge. The program should be entered only by those students who seek academic and research careers rather than practitioner advancement.

The Doctoral program is a research-oriented degree. However, the objective is not to confine holders of the Ph.D. in Public Administration entirely to teaching careers. The program is designed to provide students with a firm command of relevant theoretical and operational knowledge and research skills in public administration and to assist them in applying this knowledge to a broad array of career goals.

The concept of a researchoriented Ph.D. degree is firmly supported by the National Association of Schools of Public Affairs and Administration (NASPAA) Guidelines for Doctoral Programs, which stress that the doctoral should not be seen as merely a credential for practitioners. Accordingly, the Ph.D. program in Public Administration includes a substantial amount of formal course work, and requires a demonstrated capacity to be a problem-solver, in the form of independent research and writing. notably the dissertation.

Admission Requirements: Application for admission to the Ph.D. in Public Administration may be made either at FIU or FAU, but not to both. Admission into the Ph.D. program will be granted to students of superior ability who have demonstrated a record of previous academic success, good potential for continued success in doctoral studies, and a desire to prepare for a career in which scholarship and research are major elements. An Applicant must have received a master's degree from an accredited college or university. Generally, an applicant is expected to have a GPA of 3.5 or better for all graduate coursework and a combined score of 1000 on the GRE quantitative and verbal sections. However, some applicants may be considered on the basis of their baccalaureate degree. Foreign students will be expected to achieve a TOEFL score of 550 or higher. Admitted students may transfer a maximum of six semester credits (not included in another degree) from other institutions toward Ph.D. degree requirements. Outstanding applicants whose prior work is judged to be insufficient relative to that required for an MPA will be asked to complete additional course work. Degree Requirements: To be awarded

the degree, admitted students must complete at least 69 semester hours beyond the master's degree, or its equivalent, including 45 semester hours of approved course work and 24 hours of dissertation work after admission to candidacy. In addition, there is a residency requirement of at least 18 semester hours in three consecutive semesters of study during the first year of enrollment. A post-core evaluation and passing scores on the comprehensive examination taken after completion of the core curriculum and concentration (45 semester hours) is required before students can advance to candidacy for the Ph.D. and present a dissertation proposal. Completion of all work must be within seven years after an applicant's admission into the program.

Program of Study

The Doctor of Philosophy in Public Administration is a 69 semester hour program composed of seven required courses 21 semester hours; three courses (advisory committee) - 9 semester hours; five courses (area of concentration) - 15 semester hours: Dissertation - 24 semester hours after admission to candidacy.

Core Curriculum (21 semester hours)

PAD 7705	Advanced Quantitative
	Analysis
PAD 7707	Applied Research
	Methods
PAD 7026	Conceptual Foundations
	of Public Administration
PAD 7257	Economic Context of
	Government
PAD 7607	Legal Context of Public
	Administration
PAD 7102	Advanced Organization
	Theory
PAD 7055	Scope and Theory of
	Public Administration

Specified Courses: (9 semester hours) In addition, students must complete at least nine hours of course work (as required by their advisory committee). Six of these hours must be in research related courses.

Areas of Concentration (15 semester hours): Each student will select one area of concentration. The specific courses in a student's concentration will be determined by consultation between the student and the advisory committee. The 15 semester hours of concentration can be earned in one of two ways: (1) The students may select their 15 semester hours from one of the following public administration concentrations currently offered: Public Policy, Human Resources Administration, Comparative

Administration, or Budgeting and Public Financial Administration or (2) Students may develop their own concentration in areas of their choice relevant to public administration, such as criminal justice, social work, etc. All areas of concentration are developed after consultation with and upon approval of the advisory committee:

Post-Core Evaluation: All students will be evaluated upon completion of the core curriculum to determine their potential for completion of the program.

Comprehensive Examination: Students will be given either a written or oral examination, or both, on the non-methodological material covered in the core curriculum and area of concentration. Upon passing these exams, the student may apply for advancement to candidacy for the Ph.D. This requires registration for a minimum of 24 dissertation credits.

Dissertation (24 semester hours): Upon successful completion of the comprehensive examination, students select their dissertation guidance committee and begin preparation of their dissertation proposal. Upon approval of the proposal, the student will initiate formal work on the dissertation. During this time, the student is expected to make appropriate progress toward completing the dissertation, and to enroll continually (at least 3 credits per semester) until the degree is completed.

Upon completion, candidates will formally defend the research at a meeting conducted by the Dissertation Committee. The degree will be awarded upon a positive recommendation of the Committee and compliance with all policies and procedures required by the institution conferring the degree.

Course Descriptions

Definition of Prefixes

CIS-Computer and Information Systems; MAN- Management; PAD-Public Administration; PUP-Public Policy.

CGS 6301/MAN 6830 Management Information Systems (3). Introduction to the application of computers to information processing problems in organizations. This includes a survey of the basic computer hardware and software concepts necessary for users to work with information processing personnel. The rudiments of a computer programming language will be taught, and applied to data processing problems. Consideration will also be given to the managenial aspects of

information systems planning and development.

PAD 3002 Introduction to Public Administration (3). The course will provide an overview of the field of public administration by focusing on its development and importance in modern government operations. The course will also review operation of government at local, state, and federal levels.

PAD 3033 Administrators and the Legislative Process (3). A study of executive-legislative interactions; the impact of legislation and legislative processes on administrative policy decision-making and implementation; the influence of administration on the legislating process.

PAD 3034 Public Policy and its Administration (3). Examines the formulation, implementation, and evaluation of governmental efforts at federal, state, and local levels.

PAD 3104 Organization and Administrative Theory (3). Historical survey of theories of public organization and of contemporary and emerging theories and management issues. With special attention to the role of bureaucratic theory and behavior. Case investigation of bureaucratic experience in federal, state and local levels will be conducted.

PAD 3413 Organizational Group Processes (3). The impact of various organizational climates, tasks, roles, and reward systems, on the behavior of both the individuals and groups of employees in public organizations. Particular attention is given to alienation and motivation in job effectiveness and Public Service

PAD 3430 Personal Growth and Administrative Development (3). The administrator as a person. Development of interpersonal skills. Sell evaluation and career planning. Training and education for the public service sector

PAD 3438 Communication Skills for Public Administrators (3) Designed to enable students to develop oral and written skills required to communicate effectively in a public organization setting

PAD 3702 Quantitative Techniques for the Public Sector (3). Quantitative techniques useful to public administration, non-parametric techniques, probability concepts, and docision techniques are presented, as well as concepts underlying the use of data systems.

PAD 3804 Government and Administration of Metropolitan Areas (3). An intensive analysis of administrative problems in large complex urban areas encompassing many political entities. Examines overlapping relations among municipalities with special attention given to Dade County as well as current trends in public management and luture directions for change.

PAD 3834 International Comparative Administration (3). This course is an introduction to a wide range of scholarly and practical 'applied' interests.

Emphasis is on institution-building and development administration, particularly within the Third World countries.

PAD 3949 Cooperative Education (3). Supervised work experience in public or quasi-public organization. Placement is made through the Office of Cooperative Education. Prerequisites: Completion of required courses in public administration and consent of department Director required.

PAD 4024 Concepts and Issues in Public Administration (3). The function of administrative institutions in society. The growth of administration through the bureaucratic model both as an art and a science. Contemporary and comparative forms and theories of organization Responsibilities of public servants.

PAD 4040 Public Values, Ethics and Morality In Changing Environment (3). Theories of value: ethical systems and their influence on administration, behavior and process, the administrator as an ethical actor value conflict and resolution; the philosophical basis of American thought.

PAD 4103 Politics of Administrative Organization (3). The role of political processos in relationship to public organizations and the types of intra- and inter-organizational politics which are unique to public organizations. Effects of these political processes upon organizational performance and their role in promoting or thwarting organizational change.

PAD 4223 Public Sector Budgeting (3). The theory and practice of various approaches to budgeting, including time item, performance, PPBS budgeting Special emphasis on the role of the budget in shaping the program and performance and policy direction of public organizations.

PAD 4414 Personnel Skills for Administrators (3). The general nature of public personnel administration, the development of the civil service system; concepts and issues currently applicable at the tederal, state, and local levels of government.

PAD 4432 AdmInIstrative Leadership and Behavior (3). Designed to expose students to a systematically related set of concepts for diagnosing human behavior in organizations; and to establish a positive value for the analysis of problems involving people, structure, environment, task technology, and situational climate.

PAD 4603 Administrative Law (3). Surveys the principles of law from the perspective of the public administrator; administrative procedure; procedural due process; delegation of legislative power; regulatory administration; conflict-ofinterest statutes, etc.

PAD 4905 Independent Study in Public Administration (1-6). (Normally 3 credit hours) Individual conferences, supervised readings; reports on personal investigations; and similar undertakings. Perequisites: Completion of required courses in public administration is expected. Consent of laculty sponsor and Department Director required. /

PAD 4940 Public Administration Internship (3-6). (Normally 3 credit hours) Supervised work experience in a public or quasi- public organization. Involves a variety of professional and technical job duties depending on the agency. Prerequisites: Completion of required courses in public administration is expected. Consent of internship coordinator and department Director required.

PAD 4949 Cooperative Education (3). Supervised work experience in public or quasi-public organization. Placement is made through the Office of Cooperative Education. Prerequisites: Completion of required courses in public administration, PAD 3949, and consent of department Director required.

PAD 5041 Values and Technology in Modern Society (3). Surveys personal and societal value assumptions in the context of the technological society. Examines organizational-societal value structures, and the ways in which technology creates rapid change and new alternatives in values. Also interrelationship of the past, present and future is explored, through futurism and forecasting techniques.

PAD 5043 Government and Minority Group Relations (3). Explores the pressing contemporary issue of the relationship between government and minorities. Examines the clash between established institutional values and minority group values, and surveys remedial programs aimed at dealing with the problem. Comparative case studies will be used to analyze public agencies' internal relations with minorities (recruiting, selection, etc.), as well as their different responses to the minority groups they serve.

PAD 5256 Economic Aspects of Government (3). Application of micro and macro economics, public linance, and economy management to administration of public institutions.

PAD 5427 Collective Bargaining in the Public Sector (3). The course deals with the nature and implications of collective bargaining for managers and employees in (and students oi) public organizations. The course emphasizes similarities and differences between the private and public sectors, as they apply to collective bargaining.

PAD 5435 Administrator and the Rote of Women (3). The course is designed for women and men who are interested in moving into management positions, or who have done so and want to broaden their understanding of the changing role of women. Classes will allow for experimental as well as academic exploration of the issues. The course will also explore design, implementation, and evaluation of affirmative action programs.

PAD 5443 The Public Administrator and Media Relations (3). Surveys the government-mass communication media relationship, and then concentrates on the ways in which public managers hardle media relations. Emphasis throughout is placed on questions of information-handling unique to public organizations, involving, for example, adherence to Florida's Sunshine Law and the Federal Freedom of Information Act

PAD 5934 Contemporary Issues In Public Administration (3-6). An analysis of major conceptual issues currently facing public administrators. May be repeated.

PAD 6042 Democracy and the Administrative State (3). Juxtaposes the contemporary administrative condition of American government with the values of the democratic state. Different approaches to democracy - in practice as well as in theory - will be analyzed, and their implications for public organizations and individual administrators examined.

PAD 6053 Political, Social and Economic Context of Public Administration (3). Examines the context in which public organizations operate, stressing the relationship between such organizations and their multilaceted environment. Emphasis is on examining relevant social and cultural mores and patterns, political values and processes, governmental institutions, economic systems, resource availability, and other environmental factors currently significant to public organizations.

PAD 6056 The Practice of Public Management (3). This survey course examines and integrates concepts and techniques for public managers by locusing on topics such as government structure, budgeting, productivity and ethics, and program evaluation.

PAD 6106 Organization Theory and Administrative Behavior (3). Historical perspective and philosophical loundations of contemporary and emerging organization theory and administrative behavior, with emphasis on concepts of administrative leadership, the organization's members and systems, group dynamics, sociopsychological aspects of organization and management.

PAD 6109 Organizational Development and Change (3). Contemporary approaches to improving the overall effectiveness of public organizations through the utilization of the applied behavioral sciences: personal and executive development programs, team building, action research, etc. Survey of research on the effects of organizational development programs, with special reference to public organizations.

PAD 6205 Public Financial Management (3). Capital asset administration, debt administration, revenue systems, public employee retirement programs, purchasing, inventorying, and risk management.

PAD 6224 Advanced Seminar in Public Budgeting (3). A review of the state of the art in public budgeting, emphasizing conceptual areas for significant research and appropriate methodological design for addressing them. Prerequisites: PAD 6227, PAD 6229, and PAD 6205

PAD 6225 Comparative Public Budgeting (3). Public budgeting is a common activity in all governments and international organizations. Covers the differences in budgeting and explores patterns implicit in those differences.

PAD 6227 Public Finance and the Budgetary Proceas (3). Examines the theory and practice of public budgeting and its relationship to the administrative processes of control, management and planning. Special emphasis will be given to the social balance question; the kinds and scope of government expenditures; the fiscal role of government in a mixed economy; sources of revenue available to government; administrative, political and institutional aspects of the budget and the budgetary process; and problems and trends in intergovernmental financial relations.

PAD 6229 Advanced Management Techniques (3). Advanced techniques of budgeting and financial management in public agencies, including quantitative revenue and expenditure forecasting models.

PAD 6366 Policy and Program Implementation (3). This course examines and evaluates the legal, sociopolitical administrative factors influencing the implementation of public policy and programs. Prerequisite: PUP 6005.

PAD 6417 Public Personnel Administration (3). This course focuses on the fundamentals of public personnel administration applied to general and specific issues of civil service. Some of the specific issues which will be considered are: the merit system and civil service history and development; manpower development and training; the application of the behavioral approach in personnel administration; unique public personnel management problems; governmental unionization and collective bargaining; and future perspectives in personnel administration.

PAD 6418 Seminar in Public Personnel Management (3). This course analyzes the four key values of social equity, political responsiveness, managerial efficiency, and employee rights and their relationship to the respective mediating functions and core personnel activities. Prerequisites: PAD 6417 and PAD 6419.

PAD 6419 Seminar In Applied Public Personnel Management (3). Analysis of advanced technique for staffing, productivity improvement and cutback management; focus on problems faced by federal, state, local and non-profit agencies. Prerequisite: PAD 6417

PAD 6436 The Professional Administrator (3). Examines behavioral approaches toward understanding the personal world of public managers with emphasis on knowledge, skills, and abilities which aid effective goal accomplishment. PAD 6437 Dynamics of Individual Growth (3). This course focuses on the importance of small group theory to the personal growth of the administrator, and the role of interpersonal abilities in effectively serving client groups. The course also deals with the expansion of the phenomenological world view of each student; and will look at existential theory and the dilemma of personal growth.

PAD 6605 Administrative Law and Procedures (3). Emphasizes the responsibilities public administrators have under local, state, and federal laws. Explores such concepts as client responsiveness under the law; the regulatory process; state administrative law systems; the executive order process; the relationship between administrative law and the checks-and-balance system; discretionary justice; and others.

PAD 6701 Quantitative Methods and Computer Skills (3). Introduction to basic quantitative tools for the analysis of problems arising in the management of organizations, and the application of these tools to real-life problems. (No credit will be given to students who have had undergraduate or graduate equivalents.) Prerequisite: PAD 6706.

PAD 6706 Research Methods In Complex Public Organizations (3). Theories and concepts of research and evaluation. Specific focus given to action components of the research process: design and formulation, strategies and methodological tools for conducting research. Discussion of the role of research in administrative decisions and in testing ways to implement public policy. A review of contemporary critiques on research design.

PAD 6715 Public Monitoring Systems for Government Organizations (3). Focuses on the formal information system which is or can be used to guide a public organization and judge its performance.

PAD 6807 Urban and Municipal Government Administration (3) Detailed examination of problems lacing the municipal administrator; of the pressures upon the contemporary urban environment; and of the administration of large metropolitan areas comprised of numerous entities Emphasis will be on determination of current trends, discussion of cases, and arrival at suggested solutions.

PAD 6816 Regional and State Government Administration (3) Surveys the historical development of regional administration, analyzes present administrative problems of the states, and explores contemporary and suggested remedial policies. Emphasizes the complex problems of the institutional relationships among local, state and regional governments, and their implications for public policy-making.

PAD 6836 International Public Administration (3). The role of public administration systems around the world; and the impact of political and socio- cultural frameworks on administration. Focus on national and state organizations' politics, economics, problems, and possibilities. A review of scope and programs of contemporary international public administration organizations.

PAD 6838 Development Admin-Istration (3). The role of public administration in national development, with specific attention to theories of economic aid from external sources, and the effects of this aid. Theories and policies of economic and social development are explored; and particular attention is given to the role of the United States in strengthening administrative capabilities as an important means for achieving developmental goals in selected countries.

PAD 6839 Comparative Public Policy (3). This course addresses policy formulation and implementation as a general process of administrative action that can be investigated among the varying nation-states. It covers the differences in policy and explores patterns implicit in those differences. Prerequisite: PAD 6838.

PAD 6907 Independent Study In Public Administration (1-6). (Normally 3 credit hours) Individual contenences; supervised readings; reports on personal investigations and similar undertakings. Prerequisites' Completion of required courses in public administration is expected. Consent of laculty sponsor and Department Director required.

PAD 6915 Independent Research in Public Administration (1-6) (Normally 3 credit hours). An individualized research project and report which, if leasible, should include field work with a public organization. Prerequisites Completion of required courses in public administration is expected. Consent of laculty sponsor and Department Director required.

PAD 6946 Public Administration Internship (1-6), (Normally 3 credit hours) Supervised work in a public or quasi-public organization. Should not be undertaken until completion of required courses in public administration program. Consent of faculty advisor and Department Director required.

PAD 7026 Conceptual Foundations of Public Administration (3). This course analyzes the conceptual issues which provide the basic foundations for the field of public administration. Emphasis will be placed upon epistemological foundations and the philosophy of science and their implications for public administration as a field of study.

PAD 7055 Scope and Theory of Public Administration (3). An integrative capstone seminar in which traditional Models of Public Administration are explored and employed to analyze the structures and dynamics of public organizations and to develop alternative Models and new theoretical perspectives concerning the scope and theory of the field.

PAD 7102 Advanced Organization Theory (3). Philosophical foundations of contemporary organization theory, with emphasis on dynamic interfaces between the environmental contexts and organizations, critical analysis of both the normative and incremental orientation of concepts, theories, models, and applications. Prerequisite: PAD 6106 or equivalent.

PAD 7257 Economic Context of Government (3). This course examines interdisciplinary approaches to collective decision making and the delivery of public goods and services. Prerequisite: PAD 5256.

PAD 7607 Legal Context of Public Administration (3). This course analyzes the administrative significance of delegation, judicial review, rule making, freedom of information and sunshine laws, legislative veto, and liability for administrators. Prerequisite: PAD 6053.

PAD 7705 Applied Quantitative Analysis (3). Application of selected multivariative statistical and quantitative models to the field of public administration. Prerequisite: PAD 6701.

PAD 7707 Advanced Applied
Research Methods (3), This course will
provide students with an increased
understanding of concepts of research
methods through applied research
projects related to public policy and
public administration. Prerequisites: PAD
6701 and PAD 6706.

PAD 7980 Dissertation (3-12). This course provides dissertation guidance to doctoral candidates in the Ph.D. program in public administration. Prerequisite: Ph.D. candidacy in Public Administration.

PUP 6005 Public Policy (3). An intensive analysis of the normative theories of public policy making, with emphasis on the processes by which policy choices are made and implemented by government agencies. The current trends and perspectives of effective policy development (such as participatory democracy, multi-valued choice, rationality versus extrarationality, policy environments, and policy roles of pro-active public administration) are examined.

PUP 6006 Public Policy Analysis and Evaluation (3). A framework for evaluating public policy- making will be presented. The emphasis will be on criteria and methodologies available for choosing among alternative courses of action. The systems approach, alternative futures, and nth-order consequences of policies will be analyzed.

Social Work

Michael Kolevzon, Professor and Acting Director L. Yvonne Bacarisse, Associate Professor Milan J. Dluhy, Professor

Mary Helen Hayden, Associate Professor
Mary Helen Hayden, Assistant
Professor and Director of Field
Instruction

Rosa Jones, Associate Professor Monte Koppel, Professor Sanford Kravitz, Distinguished Professor

Carol Odell, Assistant Professor and Assistant Director of Field Instruction

Magaly Queralt, Associate Professor Florence Safford, Associate Professor Betsy Smith, Associate Professor Karen Sowers-Hoag, Assistant Professor and Coordinator Undergraduate Program

The Department of Social Work offers graduate and undergraduate studies leading to the Master's and Bachelor's degrees in Social Work.

This profession requires a high degree of knowledge, skill, and dedication. The desire and ability to work effectively with people and to help solve social problems demands a scientific understanding of society and human behavior; skills of social work practice; and identification with values of the profession.

Degree: Bachelor of Science in Social Work

The program offers an integrated educational experience that combines the theoretical and the practical. It is designed to prepare the student for beginning professional practice in social work, for entrance into a graduate school of social work, and for participation in society as an informed citizen.

The four semester program includes a sequence of academic courses and field instruction under qualified supervision in social agencies in South Florida.

The program is accredited by the Council on Social Work Education.

Lower Division Preparation
The student desiring to major in Social
Work must have completed the
Associate of Arts degree at a Florida
public community college, or equivalent
work from an accredited institution

Required Courses: Before admission to the Social Work program, the student must complete college-level courses in biology and statistics and 12 semester hours in the social behavioral sciences.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed sixty semester hours, and must be otherwise acceptable into the program.

Upper Division Program (60) Required Courses: (45)

SOW 3113	Dynamics of Human Behavior in the Social	
	Environment I	3
00111.01.05		9
SOW 3125	Dynamics of Human	
	Behavior in the Social	_
	Environment II	3
SOW 3232	Social Welfare Policy	
	and Services I	3
SOW 3233	Social Welfare Policy	
	and Services II	3
SOW 3302	Introduction to Social	
	Work Practice	3
SOW 3313	Methods of Social Work	
	Practice I	3
SOW 3403	Social Work	
0011 0100	Research	3
SOW 4322	Methods of Social Work	_
0011 4022	Practice II	3
SOW 4332	Methods of Social Work	٠
3011 4002	Practice III	3
SOW 4511	Field Experience I	8
SOW 4512	Field Experience II	8
SOW 4522	Integrative Field	
	Seminar I	1
SOW 4523	Integrative Field	
	Seminar II	1
Electives: Wit	h approval of the faculty	

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advisor

Remarks: Students should be aware that courses in this program are sequenced. Students must check with their advisors for pre- and corequisite courses. A grade of 'C' or higher in all courses required for the major is necessary for graduation. A passing grade in field courses is required for continuation in the program.

Minor in Social Welfare

A five-course minor in social welfare is available to baccalaureate degreeseeking students who are interested in careers in the human services field or who wish to study how common human needs are addressed within social welfare programs. The courses that comprise the minor will provide students with the opportunity to relate to the special concerns of our region, including poverty, crime and delinquency, child abuse and neglect, and family instability. The minor is available on both campuses.

SOW 3113	Dynamics of Human Behavior in the Social	
		3
	Environment I	3
SOW 3125	Dynamics of Human	
	Behavior in the Social	_
	Environment II	3
SOW 3232	Social Welfare Policy	
	and Services I	3
SOW 3233	Social Welfare Policy	
	and Services II	3
SOW 3302	Introduction to Social	
	Work Practice ¹	3
SOW 3350	Techniques of	
••	Interviewing	3
SOW 3313	Methods of Social	
0011 00.0	Work Practice I	3
SOW 3703	Self-Awareness, Self-	
00110100	Modification, and	
	Service	3
SOW 4193	The Systems Approac	-
3011 4193	in the Social Services	3
SOW 4242	Child Wellare Policy	3
SOW 4242		-
SOW 4283	Legal and Administrati	ve
		_
	Welfare Services	3
SOW 4654	Child Welfare	_
	Practices	3
SOW 4658	Permanency Planning	
	in Child Welfare	
	Services	3
SOW 5621	Crises in the Lives of	
	Women	3

1This course is required for the minor in social welfare. The remaining 12 semester hours are to be selected from the social work courses listed above.

Graduate Program

Degree: Master of Social Work

The Department offers an integrated program which leads to the degree of

Master of Social Work. The program is designed to give the student professional education for the advanced practice of social work. All students will be required to acquire or to possess the common base in the areas of professional study considered essential in social work education: human behavior and the social environment, social welfare policies and services, research, and social work practice. The theory acquired in the professional courses will be applied in supervised field experiences in social agencies.

select one of two concentrations. Services to the Elderly, or Services to Children and Families, and to plan a course and field practicum program that supports practice in the specialized field. With the help of faculty, students will develop individualized programs in the concentrations that seem most likely to meet their educational needs and contribute to their professional objectives.

The Master of Social Work program is a 60 semester hour program composed of 30 semester hours of the required common base in the first year and 30 semester hours of concentration courses in the second year. The advanced standing Master of Social Work is a 41 semester hour program composed of 11 semester hours of required Summer courses and 30 semester hours of concentration courses.

For additional information regarding the graduate social work program of study and degree requirements, contact the Department directly.

The Master's program is accredited by the Council on Social Work Education.

Admission Requirements: Applicants to the graduate program are required to meet the minimum standards set forth by the Florida Board of Regents and the Graduate Social Work Program. This includes a combined score of 1000 on the Verbal and Quantitative Aptitude Tests of the Graduate Record Examination or at least a 3.0 average in all upper-level division work. Application procedure for admission to graduate study will be found in the discussion of University procedure for admission to graduate study in the current catalog. An application to the social work graduate program, a personal narrative, and three letters of reference will be required for admission A personal interview may be requested also. All applicants should have had college level courses in biology and statistics and 12 semester hours in the social and behavioral sciences

The following regulations govern transfer credits:

- Courses taken at an accredited school of social work in which the applicant was a fully admitted, MSW-degree seeking student can be transferred up to a maximum of 30 semester hours.
- 2. Graduate courses taken in other than accredited social work programs and that were not used to satisfy the requirements of another degree may be transferred up to a maximum of nine semester hours.
- Students in the advanced standing program will not be awarded transfer credits.

Applicants with a B.S.W. degree from a program accredited by the Council on Social Work Education will be considered for admission to advanced standing. Advanced standing is not automatically granted. It is subject to the following additional requirements: A eleven semester hour summer session and successful completion of the summer session with grades of 'B' or higher. Final admission to the second year program will be governed by successful completion of the special summer session.

All applicants must be approved for admission by the faculty of the Department of Social Work.

First Year

	I Hat Icur	
	ses: (30 semester hours	s)
SOW 5105	Human Behavior and	
	the Social	
	Environment I	3
SOW 5125	Human Behavior and	
	the Social	
	Environment III	2
SOW 5165	Human Behavior and	
	the Social	
	Environment II	2
SOW 5235	Social Welfare	_
	Policy I	2
SOW 5236	Social Welfare	_
	Palicy II	2
SOW 5342	Social Work	
	Practice I	3
SOW 5344	Social Work	_
	Practice II	3
SOW 5404	Basic Research	
	Methodology I	3
SOW 5532	Field Practicum I	6
SOW 5542	Integrative Field	
	Seminar I	1
Elective		3

Advanced Standing

Required Cours	ses (11 semester hours	5)
SOW 5125	Human Behavior and the	ne
	Social Environment III	2
SOW 5236	Social Welfare	
	Policy II	2
SOW 5344	Social Work	
	Practice II	(

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Second Year Concentration Requirements: (30 semester hours)

Shildren and Families	
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	3
Social Program Planning	7
and Development	3
Evaluative Research in	
Social Work I	3
Advanced Intervention	
Strategies wit Children	
	3
	8
Seminar II	1
	6
	and Development Evaluative Research in Social Work I Advanced Intervention

Note: Students specializing in direct practice must take SOW 6351 and SOW 6655. Students specializing in administration and supervision must take SOW 6372 and SOW 6386.

Services to the Elderly

Services to ti	he Elderly	
SOW 5281	Legal Issues in Social	_
	Work Practice	3
SOW 5643	Understanding the	
	Process of Aging	3
SOW 6245	Social Welfare Policy	
	and Services	
	for the Elderly	3
SOW 6359	Social Work Treatment	
	with Families of the	
	Elderly	3
SOW 6372	Social Work Supervision	
	Consultation, and Staff	
	Development	3
SOW 6386	Social Program Planning	1
	and Development	3
SOW 6387	Social Services	
	Management Skills	3
SOW 6435	Evaluative Research in	
	Social Work I	3
SOW 6646	Social Work Practice	-
5511 5515	with the Elderly	3
SOW 6649	Social Work Practice in	-
0011 00 10	Long Term Care	
	and the Elderly	3
SOW 6535	Field Practicum II	8
SOW 6543	Integrative Field	•
337, 3340	Seminar II	1
Elective	Octimies ii	3
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Note: Students specializing in direct practice must take SOW 6646 and either

SOW 6359 or SOW 6649. Students specializing in administration and Supervision must take SOW 6372 and either SOW 6386 or SOW 6387.

A 'B' average is required for graduation. Any core course in which a student receives a grade lower than 'B' must be retaken. A passing grade in field courses is required for continuation in the program.

À student must successfully complete all work applicable to the Master of Social Work program within 60 months from initial admission, including two consecutive semesters of full-time study (9 semester credit hours each). In unusual circumstances, and if the reasons warrant it, a student may petition the department director for an extension of the time limit.

Course Descriptions

Definition of Prefixes SOW - Social Work.

SOW 3113 Dynemics of Human Behavior in the Social Environment I (3), Study of bio-psycho-socio-cultural factors (including racial, ethnic, and gender variables) affecting human development and functioning in relation to social systems. Prerequisites: 12 semester hours of college-level courses in the social and behavioral sciences and a college-level course in biology.

SOW 3125 Dynamics of Human Behavlor in the Social Environment II (3). Study of the lile cycle and of client problems frequently encountered by social practitioners from a biopsychological and socio-cultural perspective with attention to racial/ethnic and gender variables. Prerequisite: SOW 3113 or equivalent.

SOW 3232 Social Welfare Policy and Services I (3). This course considers the major social welfare programs in the United States: how they emerged and developed, and how they operate today. Analysis of financial resources, decision-making processes, and structure of delivery systems serves as a basis for understanding policy assessment. Corequisite: SOW 3302 or equivalent

SOW 3233 Social Wetfare Pollcy and Servicea I (3). This course examines the frameworks and methods used to analyze social wellare policy and programs. Special attention is paid to current policy issues in the Social Wellare system and strategies that can be used to achieve policy change. Prerequisites: SOW 3232 and SOW 3302 or equivalent SOW 3302 Introduction to Social Work Practice (3). An overview of the profession of social work within the institution of social welfare. Historical and philosophical development, field of practice, values, and ethics.

SOW 3313 Methods of Social Work Practice I (3). An overview of social work intervention for the beginning practitioner. Generic values, attitudes and processes in client-worker relationship-building are discussed and analyzed. Case material is utilized to acquaint students with assessment, modes of intervention, goal setting, and implementation. Prerequisites: SOW 3113, SOW 3232, SOW 3302, or equivalents. Corequisite: SOW 3125.

SOW 3350 Techniques of Interviewing (3). A competency-based course designed to provide students with basic interviewing skills. Emphasis is on acquisition of interview behavior rather than theory. Audio and videotaping, roleplaying, simulations, and microcounseling training methods will be utilized. Prerequisites: SOW 3113 and permission of instructor.

SOW 3403 Social Work Research (3). Introduction to the basic language, methods, and skills of scientific research lor beginning social work practice. Problem formulation, literature review, definition of variables, sampling, data collection and analysis, and report writing are addressed. Prerequisite: STA 3013 or equivalent.

SOW 3703 Self-Awareness, Self-Modification, and Service (3). An experience oriented course directed toward helping students become aware of their own intrapersonal and interpersonal processes and how these may influence their skill and effectiveness as professional helping persons. Emphasis is on personal learning.

SOW 3949 Co-Operative Education-Social Work I (3). A special program permitting social work majors to work in social agencies during alternate semesters, up to a maximum of two semesters. Written reports and supervisory evaluations will be required. This experience may not be substituted for SOW 4511 or SOW 4512. Prerequisites: Three social work courses and permission of the Coordinator.

SOW 4193 The Systems Approach in the Social Services (3). This course focuses on general systems theory and its implications for social service delivery. Emphasis is on systems approach models elaborated for social

service system analysis. Prerequisite: Permission of instructor.

SOW 4242 Child Welfare Pollcy (3). This course deals with legal principles upon which the child welfare system has been built, and the policies and issues that arise in planning services for children in their homes or substitute care, or both. Prerequisites: SOW 3113, SOW 3302 or equivalents.

SOW 4322 Methods of Social Work Practice II (3). This generic skills contest is designed to provide students with the theories and techniques of social work practice as applied to small groups and families. Prerequisites: SOW 3125, SOW 3233, and SOW 3313, or equivalents.

SOW 4332 Methods of Social Work Practice III (3). Provides an understanding of planned change at the community level from a social work perspective, as well as strategies and methods utilized in community organization practice. Identification of generalist skills and prevalent models of groups and community organization in social work practice. Prerequisites: SOW 4322, SOW 4511, SOW 4522. Corequisites: SOW 4512 and SOW 4523.

SOW 4511 Field Experience I (8). This is the first 315 clock hour supervised social work practice experience in service to individuals, groups, and/or communities. Placement in an agency or institution is for the purpose of gaining a first-hand awareness of needs and behavioral responses, as well as a knowledge base of expectations. responsibilities, and activities involved in the delivery of social services. This experience facilitates the development of beginning social work skills, and a continually growing awareness of self as a helping person. Majors only. Prerequisites: SOW 3125, SOW 3233, SOW 3302, SOW 3313, and SOW 3403, or equivalents. Corequisites: SOW 4322 and SOW 4522.

SOW 4512 Field Experience II (8), This second 315 clock hour supervised social work practice experience enables the student to progress toward a higher level of awareness and understanding of needs and behavioral responses. Generic skills are applied more selectively with increasing interest and proficiency in one or more practice areas. This second placement affords the student an opportunity to become a more effective part of the social service delivery system. Majors only, Prerequisites: SOW 4511 SOW 4322 and SOW 4522, Corequisites: SOW 4332 and SOW 4523

SOW 4514 Fleld Experience III (4 or 8). This third supervised social work practice experience makes it possible for students to sharpen diagnostic skills and to refine planning and implementation of appropriate helping techniques as these relate to individuals, groups, and/or communities. Majors only. Prerequisites: SOW 4332, SOW 4512, and SOW 4523, or their equivalents.

SOW 4522 Integrative Field Seminar I
(1). This course is a one-hour seminar, to be taken concurrently with SOW 4511 and SOW 4322, designed to analyze the field experience and integrate theory and practice. It provides an arena for students from various settings to come together in order to provide a richer understanding of social services on all levels. Majors only. Prerequisites: SOW 3125, SOW 3233, SOW 3302, SOW 3313, and SOW 3403, or equivalents. Corequisites: SOW 4322 and SOW 4511

SOW 4523 Integrative Field Seminar II
(1). This course is a one-hour seminar to
be taken concurrently with SOW 4512,
designed to analyze the field experience
and integrate theory and practice. It
provides an arena for students from
various settings to come together in
order to provide a richer understanding
of social services on all levels. Majors
only. Prerequisites: SOW 4322, SOW
4511, and SOW 4522, or equivalents.
Corequisites: SOW 4332 and SOW
4512

SOW 4654 Child Welfare Practices (3). Theories and models of intervention with children and adolescents will be examined within the context of the family. The main focus of the course will be on the special diagnostic and treatment skills necessary for the effective intervention with this client population. Prerequisites: SOW 3125 and SOW 3313 or permission of instructor.

SOW 4658 Permanency Planning In Child Welfare Services (3). Emphasis on those practice skills needed for implementing permanent plans for children 'at-risk'. Included are intervention strategies for developing contractual arrangements insuring a child's security. Prerequisities: SOW 3125, SOW 3233, SOW 4322, SOW 4654, or permission of instructor,

SOW 4905 Individual Study (1-6). Individually selected program of supervised study related to specific social work issues. Prerequisite, Permission of instructor.

SOW 4949 Co-Operative Education -Social Work II (3). A continuation of SOW 3949. Prerequisites: SOW 3949 and permission of the Coordinator.

SOW 5105 Human Behavlor and the Social Environment I (3). Study of individuals and families with emphasis on the analysis of bio-psycho-socio-cultural factors (including racial/ethnic and gender variables) affecting human development and social functioning through the life cycle. Prerequisites: 12 semester hours of college-level courses in the social and behavioral sciences and one college-level course in biology.

SOW 5125 Human Behavior and the Social Environment III (2). Study of the psychosocial aspects of client problems frequently encountered by social workers in direct practice with attention to differential treatment issues. Prerequisite: SOW 5105.

SOW 5165 Human Behavior and the Social Environment II (2). Study of the psycho-socio-cultural dimensions of groups, organizations, and communities with attention to racial/ethnic and gender factors and with emphasis on how these systems affect and are affected by human behavior. Prerequisite: SOW 5105 or equivalent.

SOW 5217 Seminar in Social Work (3). An exploration of various critical issues of concern to the social work profession. Prerequisite: Graduate or senior standing.

SOW 5235 Social Welfare Policy I (2). A beginning study of a historical continuum of institutional mechanisms that carry out specific social welfare systems resulting from social policies developed by society in response to social problems. Power, standards, and scarcity issues are identified, while various definitions basic to the social policy field are established and clarified Basic analytic and evaluative criteria are introduced.

SOW 5236 Social Welfare Policy II (2). A study of the prosent institutional response to social problems and social policy evolution. Definitions, structure, and modos of financing are considered utilizing various models. Specific delivery systems, such as health, income maintenance, housing, corrections and child welfare, are explored. Evaluative criteria are further developed upon the framework used in Social Policy 1. Prerequisite. SOW 5235 or equivalent.

SOW 5272 Social Welfare: Cross-Culture Comparisons (3). A combination seminar and lecture course in which students will analyze and compare social welfare policy, problems, and programs in various countries. This course is designed for seniors and graduate students. Prerequisite: SOW 3232 or SOW 5235 or permission of instructor.

SOW 5281 Legal Issues In Social Work Practice (3). This course will introduce the student to important legal aspects of social welfare policy, of social services, and of client rights. It should enable the social worker to provide knowledgeable referrals to legal services and interact effectively with courts and legal counsel. Prerequisite: Graduate or senior standing.

SOW 5342 Social Work Practice I (3). Basic relationship building and interviewing skills development, in context of value base of the profession. Critical self and peer assessment built upon in-class and video taped case simulations. Appreciation of ecological, multidimensional assessment, utilizing written and video taped case materials, with opportunities to view social problems and social work practice with individuals, families and groups within a cross-cultural, multi-ethnic perspective. Prerequisite: SOW 5105.

SOW 5344 Social Work Practice II (3). This course continues SOW 5342. It includes application of change process theories, techniques, and intervention strategies dealing with groups, organizational systems, and communities. Prerequisite: SOW 5342 or equivalent. Corequisites: SOW 5542 and SOW 5532.

SOW 5354 Crisis Intervention in Social Work Practice (3). This course examines the etiology, structure, theory, and application of crisis intervention in Social Work practice. It provides assessment criteria for assignment to this form of treatment and techniques for intervention. Prerequisite: Senior or graduate level practice course, or permission of instructor.

SOW 5404 Basic Research
Methodology I (3). This course provides
information on the principles and
methods of basic social work research.
The ethical conduct of research is taught
within the context of social work
purposes and values. The formulation of
problems for study that address the
social needs of diverse population
groups is emphasized. Prerequisite:
Statistics.

SOW 5532 Field Practicum I (6). Students spend 384 clock hours in supervised practice in a field setting in which they are expected to carry responsibilities for services to individuals, groups and/or communities. Generic skills are applied in a range of situations in one or more practice areas during this semester. Majors only. Prerequisites: SOW 5342, SOW 5235, SOW 5105, and SOW 5404. Corequisites: SOW 5542 and SOW 5344. Co- or Prerequisites: SOW 5165, SOW 5125, and SOW 5236.

SOW 5541 Advanced Standing Practicum Seminar (1). Using the experiences of undergraduate fields practica, this seminar examines current issues and values of the profession, the relationship between theory and practice with a focus on the social environments in which clients function and the implications for policy and research. Prerequisite: BSW degree from a CSWE-accredited program. Co- or Prerequisites: SOW 5125, SOW 5236, SOW 5344 and a direct practice course.

SOW 5542 Integrative Field Seminar I
(1). This one-hour seminar, taken
concurrently with the first field practicum
(SOW 5532), requires students to
analyze their field experience and
integrate theory and practice. It provides
an arena for students from various
settings to come together in order to
provide a richer understanding of social
services at all levels. Majors only.
Corequisites: SOW 5532 and SOW

SOW 5605 Medical Social Work (3). Principles of medical social work required in hospitals and community. Focus on the social worker as part of the health care team, with basic knowledge of medical problems of patients and their families. Prerequisite: Graduate or senior standing.

SOW 5621 Crises In the Lives of Women (3). An overview of special experiences in the lives of women which might lead women to seek professional assistance. Topics include pregnancy, rape, abortion, childbrith, sex discrimination, climacteric, widowhood. Prerequisite: Senior or graduate standing.

SOW 5643 Understanding the Process of Aging (3). Study of the physical, psychosocial, and cultural lactors affecting human development in late life, from a social work perspective. Prerequisites: Graduate or senior standing and permission of instructor.

SOW 5684 Professional Values in the Human Services (3). This course is designed to assist students in 6identifying, exploring, and experiencing the values inherent in professionalism, as they are manifested in the various human service professions. Material will be presented in a didactic and experiential manner with a heavy emphasis upon student involvement in the value clarification process.
Prerequisite: Graduate or senior standing.

SOW 5689 Social Work Practice with Sexual Problems (3). Skills applicable to sex-related concerns encountered in social work practice. Presents theories of the etiology of common sexual problems; explores treatment intervention modalities. Prerequisite: Graduate or senior level practice course or permission of instructor.

SOW 5845 Counseling the Elderly (3). Applied gerontological knowledge to counseling skills required for independent as well as frail elderly clients. Course focuses on long and short term interventions in a range of practice settings. Prerequisite: SOW 5643 or permission of instructor (this course cannot be used as an elective by concentrators in Services to the Elderly specializing in direct practice).

SOW 5905 Individual Study (1-3). Individually selected program of advanced supervised study related to specific work issues. Prerequisite: Permission of instructor.

SOW 6243 Child and Family Social Polley Issues (3). A comprehensive overview of the range of child and family policies, programs and issues in the U.S.A. in the context of comparing residual and institutional approaches to social service delivery, and policy implications for use of each approach. Prerequisite: Admission to concentration.

SOW 6245 Social Welfare Policy and Services for the Elderly (3). Analysis of welfare policies and services affecting the elderly, including study of service delivery models and program strategies. Policy formulation and service implementation methods are examined. Prerequisite: Admission to concentration. Corequisite: SOW 5643.

SOW 6247 Housing and Environmental Needs of the Elderly (3). Examination of housing and broader environmental needs of the elderly. Focus on needs for security, mobility, privacy, affiliation, and esteem. Particular attention to the role of the professional social worker in meeting environmental needs. Prerequisites: SOW 5643 and SOW 6245. SOW 6335 Community Development and Urban Practice (3). This advanced practice course examines planned change and community development in urban settings. Emphasis is placed on community decision making and the linkages between family development, physical development and economic development. Prerequisite: Admission to a concentration or permission of instructor.

SOW 6351 Intervention Strategles in Marrlage and the Family (3). This course will provide students with an understanding and application of the major models of social work intervention in working with families, with critical analysis skills in assessing lamily functioning and in implementing intervention techniques. The influence of cultural/ethnic differences and how these may affect family relationships and functioning will be assessed. Prerequisite: Admission to concentration.

SOW 6359 Social Work Treatment with Familles of the Elderly (3). Preventive and treatment approaches in social work practice with tamilies of the elderly. Focus on aging family as client-system; knowledge, skills needed for a range of interventions are provided. Prerequisites: SOW 5643. SOW 6646.

SOW 6372 Supervision, Consultation and Staff Development (3). Key aspects of the social services supervisory situation are explored. This course emphasizes supervisory competence, issues lacing supervisor and supervisee. Also explores consultation and staff development. Prerequisite: Admission to a concentration or permission of instructor.

SOW 6386 Social Program Planning and Development (3). Theory and practice of social program planning and development for organizations and communities. Social services to families, children and elderly, especially service needs for which programs do not exist will receive special emphasis.

Prerequisite: Admission to a concentration, or permission of instructor.

SOW 6387 Social Services
Management Skills (3). Learning units in which students practice and demonstrate, through simulation and participation, skills in major aspects of social services management.
Prerequisite: Admission to a concentration or permission of instructor.

SOW 6435 Evaluative Research In Social Work I (3). This course focuses on research designs for evaluating social work practice and social programs. The ethics, politics, and conduct of evaluative research are taught within the context of the purposes, values, and ethics of professional social work practices. Prerequisite: Admission to concentration, or permission of instructor.

SOW 6436 Evaluative Research in Social Work II (3). Implementation of evaluative research generated in SOW 6435. This seminar will provide field experience in data collection, analysis, and presentation of the final report of the evaluative research findings.

Prerequisite: SOW 6435.

SOW 6535 Fleid Practicum II (8). This field practicum is a 516-clock hour supervised educational experience in an agency setting designed to provide the student with an opportunity to develop and practice social work skills in the student's area of concentration. Majors only. Prerequisites: Admission to concentration, SOW 5281 and three graduate courses in concentration. Corequisites: SOW 6543, and an advanced practice course.

SOW 6543 Integrative Field Seminar II

(1). This one-hour field seminar taken concurrently with the specialization field practicum in the concentration area requires students to analyze their field experience and integrate theory and practice. It provides an arena for various settings to come together in order to provide a richer understanding of social services. Majors only. Prerequisites: SOW 5532 and SOW 5542.

Corequisites: SOW 6535 and an advanced practice course in the concentration.

SOW 6611 Advanced Practice with Family Systems (3). Advanced clinical skills in working with families and couples Focus will be given to nontraditional change strategies such as lamily sculpting, family reenactment, lamily choreography and dramatization. Extensive use of video taped case simulations, co-therapy, live supervision and peer evaluation models Prerequisite: SOW 6351 or permission of instructor.

SOW 6646 Social Work Practice with the Elderly (3). The knowledge and skills necessary for advanced social work practice in social agencies which deal with problems and issues of the aging population in contemporary society. Pre- or Corequisite: SOW 5643

SOW 6647 Advocacy and the Elderly (3). This course covers skills and knowledge necessary for the practice of advocacy on behalf of elderly individuals and groups, including political, legislative, and organizational perspectives. Prerequisites: SOW 5643 and SOW 6245.

SOW 6649 Social Work Practice In Long Term Care and the Elderly (3). This course locuses on direct practice with the frail elderly and their lamilies within the rapidly changing system of community and institutional long term care. Prerequisites: SOW 5643 and SOW 6646.

SOW 6655 Advanced Intervention Strategles with Children and Adolescents (3). This course will provide students with the opportunity to select, apply and evaluate appropriate interventive strategies in working with children and adolescents. Specific attention to socio-cultural, gender and racial differences in understanding child and adolescent development issues and in critically assessing the applicability of practice theories. Prerequisite: Admission to concentration.

SOW 6656 Decision-Making in Child Placement (3). This course will stress decision-making and interventions when substitute care is considered or carried out. Termination of parental rights and the choice and timing of placements of children will be considered Prerequisite: Admission to concentration or permission of instructor.

SOW 6683 Social Work Practice with the Developmentally Disabled (3). This course provides knowledge about the potential impact of developmental disabilities on individuals and families Social work interventions with interdisciplinary teams will be addressed. Prerequisite: Admission to concentration or permission of instructor

SOW 6914 Independent Research (1-6). Individually selected program of supervised data collection and analysis Prerequisite* SOW 3403 or SOW 5404 or permission of instructor

Certificate Programs Certificate in Gerontology

The objective of the certificato is to provide graduate students and qualified practitioners in the field of aging with a range of gerontological courses leading to a specialization in gerontology to supplement their chosen disciplines. Through provision of an in depth understanding of the bio socio psychological nature of the aging process, and the relation of political and

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economic resources, the program's long
range objective is to increase the
knowledge and sensitivity of
professionals in this area, and thereby
improve the service delivery system for
the increasingly large population of
elderly Floridians.

Admission: Students must have a bachelor's degree and be admitted to the program by the Program Coordinator who will serve as their faculty advisor.

Program of S	tudy: (17 semester hou	ırs)
SOW 5643	Understanding the	•
	Process of Aging	3
SOW 5905	Individual Study	2

The balance of four courses to be selected from the following electives. from a minimum of two disciplines:

Social Work		
SOW 5605	Medical Social Work	3
SOW 5845	Counseling the Elderly	<i>y</i> 3
SOW 6245	Social Welfare Policy	
	and Services for the	
	Elderly1	3
SOW 6247	Housing and the	
	Environmental Needs	of
	the Elderly	3
SOW 6359	Social Work Treatmen	t
	with Families of the	
	Elderly ¹	3
SOW 6646	Social Work Practice	
	with the Elderly1	3
SOW 6647	Advocacy and the	
	Elderly	3
SOW 6649	Social Work Practice i	n
	Long Term Care and	
	the Elderly1	3

¹Only certificate students with an MSW degree or students admitted to the Master's degree program in Social Work.

Health Servic	es Administration	
HSA 5225	Long Term Care	
	Administration	3
HSA 6875	Administrative	
	Residency	3
HSA 6905	Graduate Independent	
	Study	3

Education		
ADE 5195	Designing Education a	and
	HRD Programs for	
	Disadvantaged Adults	3

Criminai	Justice		
CCJ 5935	Special and the	Topics: Crime Elderly	3

SOW 5405	Proseminar in	
	Psychology of Adul	thood
	and Aging	3
DEP 6438	Gerontological	
	Assessment	3

Psychology

DEP 6465	Psychology of Culture	
DEP 6446	and Aging Cognitive Processes	3
	of Aging	3
DEP 6477	Psychology of Social	
	Processes in Aging	3
DEP 6937	Current Literature in the	ne
	Psychology of	
	Adulthoodand Aging	3

Occupationa	l Therapy	
OTH 5600	Study of gerontology a	s _.
	Related to Occupation	al
	Therapy	3
OTH 5630	Occupational Therapy Assessment of the	
	Elderly	3

Law and Criminal Justice Certificate

The Law and Criminal Justice academic certificate is designed to provide legallyconscious students with concepts and information utilized by law professionals. Study shall include casework, procedures, court processes, research methods, and other introductory coursework designed to enhance careers in the legal profession.

Admissions: Students must be fully admitted to the Bachelor of Science degree in Criminal Justice or another bachelor degree program.

Certificate Award: The Certificate will be awarded upon completion of the required certificate courses and the bachelor degree requirements. The certificate will be posted on the student's transcript at the time the completion of the bachelor degree requirements is posted.

Required Criminal Justice Courses: The student shall complete a minimum of 18 semester hours of the following selected criminal justice courses with a minimum grade of "C" in each course. Core criminal justice courses will not count for Criminal Justice majors.

CCJ 3271	Criminal Procedure	3
CCJ 3290	Judicial Policy Making	3
CCJ 3291	Judicial Administration	3
CCJ 4032	Crime and the Media	3
CCJ 4252	Criminal Justice and	-
	the Constitution	3
CCJ 4280	Law and Criminal	
	Justice	3
CCJ 4282	Legal Issues in	
	Corrections	3
CCJ 4752	Legal Research	3
CCJ 5216	Criminal Law	3
CCJ 5235	Criminal Procedure	3
CCJ 5286	Comparative Law	3

Professional Certificate in Justice Administration and Policy Making

The Professional Certificate in Justice Administration and Policy Making is designed to complement a range of professional activities, academic programs, and degrees in the field of criminal justice. The goals of the program are to (1) stimulate interest in the study of justice administration and policy making at the graduate level, (2) to promote graduate studies with a concentration in criminal justice, and (3) to provide practitioners in the field of criminal justice with a cluster of courses leading to a specialization in criminal justice.

Admission

Applicants must have a bachelor's degree from an accredited college or university. Students must be admitted to the certificate program by the department director, who will serve as their faculty advisor. Admission to the program does not ensure admission to the Master's degree in Criminal Justice Administration

Note: Students who apply for and are admitted to the Master of Science in Criminal Justice Administration degree program may have their certificate courses with a grade of 'B' or better credited toward the master's degree program

Program of Study

A total of 15 successfully completed semester hours is required to complete the certificate program. Students must complete their program of study within three years from the date of admission and receive a 3.0 GPA or higher in their program of study.

Core	Required	Courses

Core Require	d Courses	
CCJ 5288	Legal Issues for	
	Criminal Justice	
	Administrators	3
CCJ 6025	Theory in the	
	Administration	
	of Justice	3
CCJ 5445	Corrections and	
	Correctional	
	Management	3
CCJ 5105	Police Organization,	
	Behavior and	
	Administration	3

Optional Courses

	the following courses.
	may be made with the
approval of th	ne faculty advisor.
CCJ 5605	Deviance and Social
	Control

3

CCJ 5935 CCJ 6477 Special Topics 3 Seminar in Information Systems 3

Certificate in Public Management

This professional certificate program will provide students with a thorough understanding of the managerial concepts and techniques of public administration designed particularly for those who already have a professional field of specialization.

Admission: All applicants must hold a baccalaureate degree from a regionally accredited college or university. Students must be admitted to the program by the Program Coordinator, who will serve as their faculty advisor. Admission to a certificate program does not ensure admission to the master's degree in Public Administration (MPA) program.

Note: Students who apply for and are admitted to the Master of Public Administration degree program may also have certificate courses credited toward the Track II specialization in Public Management. However, if students have enrolled in more than one certificate program, a maximum of 15 semester house from the certificate program may be accepted into the MPA program.

Program of Study (15 semester hours)
PAD 6053 Political, Social,
and Economic
Context of PA 3
PAD 6106 Organization Theory
and Administrative
Behavior
3
PAD 6227 Public Finance and the

PAD 6227 Public Finance and the Budgetary Process 3
PAD 6417 Public Personnel Administration 3

Optional Courses: (One needed)

PAD 6056	The Practice of Public	
	Management	3
PAD 5934	Contemporary Issues i	in
	Public Administration	3

Students must complete their program of study within three years from the date of admission end receive no less than a 3 0 GPA.

Certificate in Public Personnel Management and Labor Relations

Public Personnel Management and Labor Relations are one of the fastest growing fields in public administration today. Supervisors need a knowledge of human relations to work well with employees and clients in a multi-ethnic society. Personnel managers need to know how to design and improve human resource management activities as well as how to bargain collectively and resolve grievances.

The Certificate Program goes beyond the traditional areas of interviewing, hiring, and salary schedules to explore the effective utilization of human resources in public agencies by providing both a philosophical framework and opportunities for knowledge and skills in the critical field of Personnel Management.

Administration (MPA) program.

Note: Those students who apply for and are admitted to the Master of Public Administration degree program may have Certificate courses credited toward the Track II specialization in Public Personnel Management and Labor Relations. However, if students have enrolled in more than one certificate program, a maximum of 15 semester hours from the certificate program may be accepted into MPA program.

Program of Study: (15 semester hours)

PAD 5427	Collective Bargaining	
	in the Public Sector	3
PAD 6417	Public Personnel	
	Administration	3
PAD 6419	Seminar in Applied	
	Public Personnel	
	Management	3
PAD 6437	Dynamics of Individual	
	Growth	3

Optional Courses (one needed)

PAD 5043	Government and	
	Minority Group Relations	3
PAD 5435	Administrator and the Role of Women	3
PAD 6109	Organizational Development and	
	Change	3

Students must complete their program of study within three years from the date of admittance and receive no less than a 3.0 GPA.

School of Public Affairs and Services

Dean Allan Rosenbaum
Associate Dean Thomas M. Dunaye
Associate Dean Ray Surette
Director of Student and

Alumni Affairs Jose Marques
Director of Budget and Resource
Development Carmen Mendez

Coordinator for Systems
Development Manuel Lorenzo

Department Directors: Criminal Justice

(Acting) W. Clinton Terry Health Services

Administration David Bergwall
Public Administration Ralph Lewis
Social Work (Acting) Michael Koleyzon

Faculty

Bacarisse, L. Yvonne, M.S.W., L.C.S.W. (Tulane University), Associate Professor, Social Work

Baker, Keith, Ph.D. (University of California), Associate Professor, Public Administration

Brosnan, Dolores, Ph.D. (SUNY -Binghamton), Assistant Professor and Ph.D.Coordinator, Public Administration

Clark, Robert S., Ph.D. (New York University), Professor, Criminal Justice

Cunnigham, Gerald H., M.B.A. (University of Miami), Instructor, Health Services Administration

Dluhy, Milan J., Ph.D. (University of Michigan), Professor, Social Work

Dunaye, Thomas M. Dr. P.H. (U.C.L.A.), Prolessor, Health Services Administration and Associate Dean

Foster, Rosebud, Ed.D. (University of Miami), Professor, Health Services Administration

Frankenhoff, Charles, Ph.D. (Georgetown University), Senior Lecturer, Health Services Administration

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Kamons, A. Susan, Dr.P.H. (Columbia University), Assistant Professor, Health Services Administration

Kolevzon, Michael S., D.S.W. (University of California, Berkeley), Professor, Social Work and Acting Director

- Koppel, Monte H., Ph.D. (New School for Social Research), Professor, Social Work
- Kravitz, Sanford L., Ph.D. (Brandeis University), Distinguished Professor, Social Work
- Lewis, Ralph G., Ed.D. (Harvard University), Associate Professor and Director, Public Administration
- Loveless, Staphen C., Ph.D. (Syracuse University), Assistant Professor, Public Administration
- Marques, Jose A., M.S.W., A.C.S.W. (Barry University), Associate Professor, Criminal Justice and Director of Student and Alumni Alfairs
- Mendez, Carmen, M.P.A. (Florida International University), Instructor, Public Administration and Director of Budget and Resource Development
- Meyers, Robert A., J.D. (University of Miami), Assistant Professor, Public Administration
- Odell, Carol R., M.S.W., L.C.S.W. (Tulane University), Assistant Professor and Assistant Director of Field Instruction, Social Work
- Park, Myung, Ph.D. (University of Southern California), Professor, Public Administration
- Queralt, Magaly, Ph.D. (University of Miami), Associate Professor, Social Work
- Rizzo, Ann-Marie, Ph.D. (Syracuse University), Associate Professor, Public Administration
- Rosenbaum, Allan, Ph.D. (University of Chicago), Professor, Public Administration and Dean
- Rothman, Max, LLM, J.D. (University of Michigan Law School), Senior Lecturer, Health Services Administration
- Safford, Florence, D.S.W. (Hunter College), Associate Prolessor, Social Work
- Salas, Luis P., J.D. (Wake Forest University), Professor, Criminal Justice
- Scheiner, Sue, Ph.D. (University of California, Los Angeles), Associate Professor, Social Work
- Sechrest, Dale K., D.Crim. (University of California), Assistant Prolessor, Criminal Justice
- Shearn, Regina B., Ph.D. (Florida State University), Associate Prolessor, Criminal Justice
- Siddharthan, Krismaswami, Ph.D. (Carnegie-Mellon University), Assistant Professor, Health Services Administration
- Smith, Betsy A., Ph.D. (State University of New York at Buffalo), Associate Professor, Social Work

- Snow, Robert E., J.D. (Florida State University), Associate Professor, Criminal Justice
- Sowers-Hoag, Karen, Ph.D. (Florida State University), Assistant Professor, Social Work and Coordinator, Undergraduate Program
- Surette, Ray, Ph.D. (Florida State University), Associate Professor, Criminal Justice and Associate Dean
- Terry, Clinton W., Ph.D. (University of California), Associate Professor and Acting Director, Criminal Justice
- Thomas, Henry B., D.P.A. (University of Southern California), Assistant Professor, Public Administration
- Ventura, Arnoldo K., Ph.D. (Cornell University), Associate Professor, Health Services Administration
- Wheeler, Melissa, M.A., M.B.A. (Florida State University) Instructor, Health Services Administration
- White, Vandon E., Ph.D. (Purdue University), Professor and Acting Director, Health Services Administration
- Wilbanks, William, Ph.D. (State University of New York), Professor, Criminal Justice

Military Programs

Aerospace Studies

Florida International University, in cooperation with the Department of Aerospace Studies, Air Force Reserve Officer's Training Corps (AFROTC), at the University of Miami, provides an opportunity for selected students to prepare for Air Force commissions while completing degree requirements. Two programs are offered:

1. The Four-Year AFROTC program is comprised of a two-year basic course in Air Force organization and the development of air power, and a two-vear advanced course directed toward developing managerial skills and attitudes necessary for appointment as an Air Force officer.

2. The Two-Year AFROTC program (the last two years of the Four-Year program) is available for students in their last four semesters of college following successful completion of a six week summer Field Training course at selected Air Force bases.

In order to complete either program, all Air Force ROTC cadets must complete specified minimum requirements in English composition and

mathematical reasoning.

Air Force ROTC scholarships for 2, 2-1/2, 3 and 3-1/2 years are available to qualified cadets on a competitive basis. The engineering curriculum, coupled with the Air Force ROTC program, requires a minimum of five years to complete degree requirements. Air Force ROTC Cadets must take 16 additional hours in Aerospace studies, along with an Air Force sponsored Summer Training Camp between their sophomore and junior years in college. This allows qualified engineering students to receive four year scholarships (maximum allowed by current legislation) even though already enrolled in college. All scholarship students must obtain at least 3 hours of college level credit in an Indo-European language (unless waived) in addition to the English and math requirements listed above. Scholarships cover tuition, fees, books, and \$100 per

Cadets earn two credits for each basic year and six credits for each advanced year. Entry into the basic course entails no military obligation, entry into the advanced course usually leads to extended active duty as an Air Force officer. Call to active duty after graduation may be delayed for selected cadets who plan to attend graduate school.

Cadets are provided with uniforms and textbooks; the cadet corps collects a small activity fee each semester from each cadet to cover corps activities.

Selection for the advanced course is highly competitive. Cadets must be citizens of the highest personal and physical qualifications, chosen for their proven ability to lead.

Applicants who are veterans or who have completed Junior ROTC, may be considered for waiver of the basic

course.

Advanced course cadets are paid \$100 per month for 20 months. Basic cadets attend one hour of class each week. Advanced cadets attend three hours of class each week, and all cadets are involved in one hour of leadership laboratory each week. All classes are conducted on the University of Miami campus.

AFROTC cadets may participate in crientation flights in military aircraft. Juniors or seniors selected for pilot training receive 13 hours of flight instruction at a local FAA approved flight school. For more information, call 284-2870.

Course Descriptions Air Force ROTC

AFR 1101C First Semester Basic (1). Study of the doctrine, mission and organization of the United States Air Force; U.S. strategic offensive and defensive forces; their mission, function and employment of nuclear weapons.

AFR 1110C Second Semester Basic (1), U.S. general purpose and aerospace support forces; the mission, resources, and operation of tactical air forces, with special attention to limited warfare; review of Army, Navy, and Marine general purpose forces.

AFR 2130C Third Semester Basic (1). Changing nature of military conflict; factors leading to the development of air power; concepts and doctrine governing the employment of air power.

AFR 2131C Fourth Semester Basic How technology has affected the growth and development of air power; the changing mission of the defense establishment, emphasizing the Air Force; how air power has been employed in military operations.

AFR 3220C Air Force Leadership (3) Air Force leadership in theory and practice; written and oral communications in the Air Force

AFR 3230C Air Force Management (3) Air Force management in theory and practice: management tools, principles, problem-solving; written and oral communications in the Air Force

AFR 4201C The Military Profession and Society (3). National security forces in contemporary American society.

AFR 4210C Formulation and Implementation of U.S. Defense Policy (3). Political, economic and social constraints on the formulation of U.S. defense policy. Technological and international impact upon the overall defense policy-making process. The military justice system.

AFR 4240 Flight Instruction Ground School (2). Fundamentals of flight, rules and regulations governing safe operation of civil aircraft.

Army ROTC Program

The Army Reserve Officers' Training Corps at Florida International University offers a four-year and a two-year Office Training Program leading to a commission as a Second Lieutenant in either the United States Army Reserve or the Regular Army. Depending on the student's academic major his/her desires and the needs of the Army, this commission may be in any one of the Army's branches.

All textbooks, uniforms and equipment are furnished. The only cost is a student activity fee of \$5.00 per semester. During the two years of the Advanced Course, the student is paid \$100.00 per month for up to ten months during each academic year by the U.S. Government. In addition, one-, two-, and three-year scholarships may be awarded to exceptional students. (For further information contact the Military Science Department.)

The course of instruction emphasizes theoretical and practical leadership. It is divided into Basic (MS I and MS II) and Advanced (MS III and MS IV) Courses Admission to the Basic Course is open to full-time students who will complete the lour-year program prior to their 30th birthday and who are physically qualified Admission to the Advanced Course is competitive. The Professor of Military Science must approve all applicants. In addition, all advanced students must pass mental and physical examinations and have received credit for the Basic Course. A student who wishes to continue with post graduate work may be deterred from call to active duty for up to four years after commissioning

Credit for the Basic Course may be given for prior military service or for participation in three years of Junior ROTC during high school. Credit for the entire Basic Course may be received by attending a six week Summer Camp at

Fort Knox, Kentucky under the Two-Year ROTC Program. Students participating in this camp are paid approximately \$540.00 plus travel costs, lodging, and food.

Additionally, the Army ROTC offers voluntary activity modules to all students. These modules allow the student to receive Military Core Credit Hours (MCCH) for his/her participation. The modules offered are:

Bushmaster/Raider: Teaches small unit Ranger/Special Forces tactics, techniques, rappelling, survival, field crafts and leadership.

Expert Field Cadet: Teaches basic military skills and leadership. In addition to the above, students can receive Military Supplemental Credit Hours (MSCH) for participation in:

Rille Marksmanship: Training and liring of the .22 caliber rille. All students fire and are eligible to compete in intercollegiate rille matches.

Wargaming: Teaches the evolution of warfare, strategy, tactics and logistics through the use of wargames such as Blitzkrieg and Squad Leader, as well as through the use of military miniatures and other RPG's.

Class Hours Required

First- and second-year students attend one hour of class per week. Third- and fourth-year students attend three hours per week. In addition, advanced students attend one six-week Advanced Summer Camp between his/her junior and senior years. Students will receive approximately \$800.00 plus food, lodging and travel costs reimbursement for participation in this summer training.

For any additional information concerning the Army ROTC Program, contact the Prolessor of Military Science at (305) 284-4673.

Army ROTC

MIS 1002 First Year Basic (1). An orientation of the ROTC program and its objectives; the role and organization of the Army; the fundamentals of leadership and management; leadership development.

MIS 1300 First Year Basic (1). Basic operations and tactics of Inlantry and Mechanized Infantry as small unit level; military principles of war.

MIS 2106 Second Year Basic (1)
MIS 2106L Second Year Basic
Laboratory (0). Basic military skills in
radio communication procedures; US
and opposing lorces Armor and AntiArmor capabilities; security and
intelligence reporting; nuclear, biological,
and chemical battlelield; US Artillery
weapons; and basic lirst aid. Required
Laboratory, Field Training, and/or Activity
Module participation.

MIS 2333 Second Year Basic (1) MIS 2333L Second Year Basic Laboratory (0)

Map reading skills, determining distance, direction, and location; analysis of terrain; and indirect fires. Required Laboratory, Field Training, and/or Activity Module.

MIS 3423 Advanced Military Science III (3)

MIS 3423L Advanced Military Science III Laboratory (0). Management and leadership. Case studies in fact finding, decision making, planning, delegation, and interpersonal skills. Motivation training with emphasis on crisis-oriented organizations. Required Laboratory. Prerequisite: Permission of the PMS.

MIS 3310 Advanced Military Science

MIS 3310L Advanced Military Science III Laboratory (0). Advanced leadership and troop command procedures. Small unit tactics and communications. Map and compass skill. Patrolling, tactical operations. Required Leadership Laboratory. Prerequisite: Permission of the PMS.

MIS 4120 Advanced Military Science IV (3). Ethics and professionalism responsibilities of the military officer. The military law and justice system. The laws of war. Prerequisite: Permission of the PMS

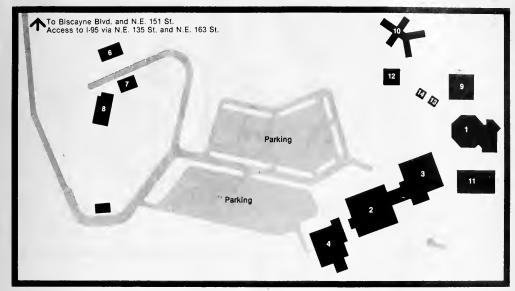
MIS 4410 Advanced Milltary Science IV (3). The applied leadership techniques in counseling subordinates; written and oral communications; the command, staff, personnel, logistics, and training management systems; the role of NCO's

Marine Officer Programs

Qualified students may apply for an officer program leading to a commission as a Second Lieutenant in the United States Marine Corps. Commissions are offered in both ground and aviation components. The Platoon Leaders Course (PLC) is offered to freshmen. sophomores and juniors who attend precommissioning training during the summer. Financial assistance and Flight Indoctrination Programs are available. Qualified seniors and twelve weeks of training in the Officer Candidate Course (OCC) alter graduation. For details, contact the Career Development and Placement Office, or the Marine Officer Selection Officer when he is on campus.

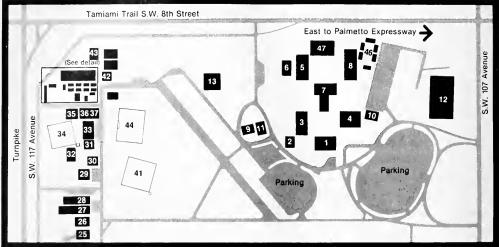
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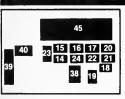
FLORIDA INTERNATIONAL UNIVERSITY NORTH MIAMI CAMPUS



- Trade Center (TC)
 Academic One (AC I)
 Student Center (SC)
 Academic Two (AC II)
 Information Booth
 Central Receiving
 Public Safety
- 8. Physical Plant 9 Tennis Courts 10. Dorms 11. Aquatic Center 12. Library 13. MO1N 14. MO3N

FLORIDA INTERNATIONAL UNIVERSITY UNIVERSITY PARK





- Primera Casa (PC)
 Campus Support
 Deuxieme Maison (DM)
 University House (UH)
 Viertes Haus (VH)
 Central Utilities (CU)

- 7 Athenaeum (AT) 8 Owa Ehan (OE) 9 Tower
- 10 Information Booth 11 Duplicating Center
- 12 Dorms 13 Sunblazer Arena

- 14. MO1 27 WO2 15 MO2 28 WO3 16. MO3 29. WO4 17. MO4 30. WO4A 18. MO5 31 WO5 20. MO7 33. WO6 21. MO6 34 Sortball 22 MO9 35 WO7 23. M10 36 WO6A 24. M11N 37. WO8B 25 WO1 38 WO6 26 WO1A 39 W10 27 WO2 28 WO3 29 WO4 30 WO4A 31 WO5 32 WO5A 33 WO6 34 Softball Field 35 WO7
- 40. W10A 41. Baseball Field 42. Handball Courts

- 42. Handball Courts
 43. Recreation Booth
 44. Soccer
 45. Tennis Courts
 46. OET
- 47. Engineering Bldg (Opening fall '89)

Definition of Prefixes

ACG - Accounting: General, 145 ADE - Adult Education, 189

ADV - Advertising, 56

AFR - Aerospace Studies, 291 AMH - American History, 77

AML - American Literature, 66 ANT - Anthropology, 115 APB - Applied Biology, 45

ARA - Arabic, 89 ARC - Architecture, 217 ARE - Art Education, 190

ARH - Art History, 121 ART - Art, 122 AST - Astronomy, 100

BAN - Banking, 147

BCH - Biochemistry, 45 BCN - Building Construction, 217

BOT - Botany, 45 BSC - Biological Sciences, 46 BTE - Business Teacher Education, 190

BUL - Business Law, 148

CAP - Computer Applications, 60 CCJ - Criminal Justice, 268

CDA - Computer Design/Architecture, 226 CES - Civil Engineering Structures, 221 CGS - Computer General Studies, 60,

148, 190

CHD - Home Economics: Child

Development, 190 CHI - Chinese, 89 CHM - Chemistry, 50

CHS - Chemistry: Specialized, 52
CIS - Computer Information Systems, 60
CLB - Clinical Psychology, 109

CLP - Clinical Psychology, 108 COA - Home Economics: Consumer Affairs, 191, 212

COC - Computer Concepts, 60 COP - Computer Programming, 61

COT - Computer Theory, 61 CPO - Comparative Theory, 103

CRM - Computer Resources/Management, 62 CRW - Creative Writing, 67

CTE - Home Economics: Clothing and Textiles, 212

CYP - Community Psychology, 108

DAA - Dance Activities, 119

DEP - Developmental Psychology, 109

DIE - Dietetics, 240

EAB - Experimental Analysis of Behavior, 110

ECI - Civil Engineering, 222 ECO - Economics, 63

ECP - Economic Problems and Policy, 65 ECS - Economic Systems and

Development, 191

EDA - Educational Administration, 191 EDE - Education: Elementary, 191

EDF - Education: Foundations and Policy Studies, 192

EDG - Education General, 193 EDH - Education: Higher, 194 EDP - Educational Psychology, 194 EDS - Education Supervision, 194 EEC - Education: Early Childhood, 194 EED - Education: Emotional Disorders, 195 EEL - Engineering: Electrical, 226

EES - Environmental Engineering Science, 222

EEX - Education: Exceptional Child, 195 EGC - Educational Guidance -

Counseling, 196 EGI - Education: Gifted, 197

EGM - Engineering: Mechanical, 222, 231 EGN - Engineering: General, 223

EIA - Engineering: General, 223 EIA - Educational: Industrial Arts, 197 EIN - Engineering: Industrial, 229

ELD - Education: Specific Learning Disabilities, 197

EMA - Engineering: Materials, 232 EME - Education Technology and

Media, 197

EML - Engineering: Mechanical, 226 EMR - Education: Mental Retardation, 197

ENC - English Composition, 64 ENG - English: General, 65 ENL - English Literature, 65

ENU - Engineering: Nuclear, 97 ENV - Engineering: Environmental, 218, 226

ESE - Education: Secondary, 175 ESI - Engineering Systems, Industrial, 230

EUH - European History, 77 EVR - Environmental Studies, 71 EVS - Environmental Science, 73

EVT - Education: Vocational/Technical, 198
EXP - Experimental Studies, 110

FAD - Home Economics: Family

Development, 199 FIL - Film, 56 FIN - Finance, 148

FLE - Foreign Language Education, 199 FOL - Foreign and Biblical Languages, 89

FOS - Food Science, 256

FOT - Foreign and Biblical Languages in Translation, 89

FOW - Foreign and Biblical Language - Comparative Literature, 89

FRE - French Language, 90 FRT - French in Translation, 90 FRW - French Literature - Writing, 90

FSS - Food Service Systems, 255 GEA - Geography: Regional Areas, 81

GEB - General Business, 151 GEO - Geography: Systematic, 73, 81

GEO - Geography: Systematic, 73, 81 GER - German, 91

GET - German Literature in Translation, 91

GEY - Gerontology, 274 GLY - Geology, 73

GRE - Classical Greek: Language Study, 98, 113

HBR - Hebrew, 91

HEE - Home Economics Education, 200 HFT - Hotel and Restaurant, 256

HIS - General History, 78
HLP - Health, Leisure, and Physical

Education, 200 HME - Home Economics: Home

Management and Equipment, 200 HSA - Health Services Administration, 274 HSC - Health Sciences, 275 HUM - Humanity, 80

HUN - Human Nutrition, 241

IDS - Interdisciplinary Studies, 84 IND - Interior Design, 218

INP - Industrial and Applied Psychology,

INR - International Relations, 81, 104

ITA - Italian Language, 91 ITT - Italian in Translation, 91

JOU - Journalism, 56 JPN - Japanese, 92

LAA - Landscape Architecture, 218 LAE - Language Arts and English

Education, 200 LAH - Latin American History, 79

LBS - Labor Studies, LEI - Leisure, 201 LIN - Linguistics, 68, 92

LIT - Literatures, 68 MAA - Mathematics: Analysis, 86

MAC - Mathematics: Calculus and Precalculus, 86
MAD - Mathematics: Discrete, 86
MAE - Mathematics Education, 20

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Structures, 86 MAT - Mathematics, 86

MCB - Microbiology, 47 MET - Meteorology, 76

MGF - Mathematics: General and Finite, 87

MHF - Mathematics, Foundations, 87 MIS - Military Science, 291

MLS - Medical Laboratory Science, 244 MMC - Mass Media Communication, 57 MRE - Medical Records, 276

MRE - Medical Records, 276 MTG - Mathematics: Topology/Geometry, 87

MUC - Music: Composition, 96 MUE - Music Education, 96, 202 MUG - Music: Conducting, 96 MUH - Music: History, 96

MUL - Music Literature, 96 MUM - Music Commercial, 96 MUN - Music Ensembles, 97

MUN - Music Ensembles, 97 MUS - Music, 97

MUT - Music: Theory, 97 MVB - Applied Music: Brasses, 97

MVK - Applied Music: Keyboard, 98 MVP - Applied Music: Keyboard, 98 MVP - Applied Music: Percussion, 98 MVS - Applied Music: Strings, 98

MVS - Applied Music: Strings, 98 MVV - Applied Music: Strings, 98 MVW - Applied Music: Woodwinds, 98

NUR Nursing, Generic Undergraduate, 263

OCB Oceanography Biological, 47 OCC - Oceanography Chemical, 76

OCC - Oceanography Chemical, 76
OCG - Oceanography Goneral, 76
OCG - Oceanography Goological, 76

OCP - Oceanography Physical, 76 OTH - Occupational Therapy, 247

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PAD - Public Administration, 280 PCB - Process Biology, 47 PEL - Physical Education Activities

(General), 202

PEM - Physical Education Activities General/Performing, 202

PEN - Physical Education Activities

General/Water, 203 PEO - Physical Education Activities

Professional, 204 PEP - Physical Education Activities

Professional/Performing, 204 PEQ - Physical Education Activities

Professional/Water, 205 PET - Physical Education Theory, 205

PGY - Photography, 57, 123 PHC - Public Health, 275

PHH - Philosophy, History of, 98 PHI - Philosophy, 99, 113

PHM - Philosophy of Man and Society, 99 PHP - Philosophers and Schools, 100, 113

PHS - Physics: Specialized, 100 PHT - Physical Therapy, 251

PHY - Physics, 101 PHZ - Physics, 102

POR - Portuguese Language, 92

POS - Political Science, 105 POT - Political Theory, 106

POW - Portuguese Literature: Writings, 92

PPE - Personality, 111 PRO - Prosthetics/Orthotics, 249

PRT - Portuguese in Translation, 92

PSY - Psychology, 111 PUP - Public Policy, 106 PUR - Public Relations, 57

QMB - Quantitative Methods in Business.

RED - Reading Education, 204

REE - Real Estate, 157 REL - Religion, 113

RMI - Risk Management and Insurance, 158

RTV - Radio/Television, 58

RUS - Russian Language, 92

SCE - Science Education, 205

SOP - Social Psychology, 112 SOW - Social Work, 284

SPA - Speech Pathology and Audiology. 205

SPN - Spanish Language, 92

SPS - School Psychology, 947

SPT - Spanish Literature in Translation, 94 SPW - Spanish Literature: Writings, 94 SSE - Social Studies Education, 205

SSI - Social Sciences: Interdisciplinary, 84

STA - Statistics, 118 SUR - Surveying, 224

SYA - Sociological Analysis, 116

SYD - Sociology of Demography and Area Study, 117

SYG - Sociology: General, 117 SYO - Social Organization, 117 SYP - Social Process, 117

TAX - Taxation, 159 THE - Theatre, 120

TPA - Theatre Production and

Administration, 120

TPP - Theatre Performance and Performing Training, 120

TRA - Transportation, 160

TSL - Teaching English as a Second

Language, 206

TTE - Transportation and Traffic

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WOH - World History, 78

ZOO - Zoology, 48

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